

Use of pigtail welded pipe



AI Overview

Pigtail welded pipes are used to protect instruments, absorb vibration, and manage thermal effects in piping systems. Purpose and Function Pigtail welded pipes, often coiled or looped, serve as a buffer between process media and sensitive instruments such as pressure gauges, transmitters, and switches. Their curved design allows them to absorb vibration and pressure pulsations, preventing stress from being transmitted to connected equipment and extending the lifespan of instruments. They also act as a thermal barrier, allowing high-temperature steam or hot liquids to cool before reaching the instrument, and can collect condensate to form a protective fluid barrier. Applications Pressure Measurement Systems: Installed between the process line and pressure gauges or transmitters, pigtails prevent direct exposure to high-temperature or corrosive media, ensuring accurate readings and safe maintenance. Steam and Gas Systems: Pigtails function as condensate traps or cooling loops, reducing thermal shock and protecting instruments from hot vapors. High-Pressure Gas Systems: Flexible pigtails with stainless steel or PTFE-lined construction are used to connect cylinders to piping systems, often including check valves to prevent reverse flow. Benefits Vibration Dampening: Reduces the impact of pressure surges from pumps or valves, improving measurement accuracy. Thermal Protection: Prevents instruments from overheating by allowing media to cool along the coil. Safe Maintenance: Creates a buffer zone, enabling instruments to be removed or calibrated without media leakage. Extended Equipment Life: Minimizes mechanical and thermal stress on instruments, enhancing reliability and service life. Design Considerations Pigtail welded pipes are typically made from stainless steel or other corrosion-resistant materials and can be configured in various lengths and diameters depending on pressure, temperature, and installation requirements. Proper installation ensures condensate collection and effective vibration isolation. In sum...

Article Content

All About Pigtail Weld Screw: Specifications, Performance, and Common Uses

A pigtail weld screw, also known as a weld screw or stud weld screw, is a specialized fastener used in industrial and structural applications where strong, permanent attachment is required.

Extending the life of steam methane reforming pigtails

Outlet pigtails, in contrast, must be able to withstand temperatures up to 900°C, which creates harsher hot corrosion challenges. This means the

Pigtails

Pigtails are flexible hoses designed for gas systems at pressures up to 3000 PSIG. Harris® offers pigtails with a variety of end fittings, including common CGA

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What is the use of a pigtail joint?

A pigtail joint is used where a number of wires must be consolidated into just one to make a connection. For instance, say you have an outlet box where you have to wire a receptacle. The only ...

Pigtail, Hoses, & Fittings

Outstanding Pigtails, Hoses and Fittings Features High pressure flexible hoses are available in 3000, 3600, 4350 and 6000PSI maximum working pressures

Envoy_LF_Incoloy 800HT V1 dd

SCOPES Five new pigtails were welded into the plant (5 butts & 5 Socket welds). In April of 2015, Langfields were contacted to carryout the Site welding of 14 off new pigtails at the same existing

What are Pigtails | Piping Glossary

A pigtail is a coiled or looped section of tubing used in piping and instrumentation systems to absorb vibration, manage thermal expansion, and protect pressure

Types and Uses of Welded Steel Pipes

Welded steel pipes use high-temperature fusion welding technology, which can effectively improve the strength and hardness of the pipe. The welded

Pigtail Failure Mechanisms and Inspection

Pigtails are used to transfer syn-gas from reformer tubes to manifolds and experience high stresses from temperature and pressure. Common failure

Industrial Supplier

Hier sollte eine Beschreibung angezeigt werden, diese Seite lässt dies jedoch nicht zu.

Reliability of reformer outlet systems

The reliability of primary reformers is a key issue for syngas plants. Quest Integrity describes the damage mechanisms and material limitations that

Pigtails | Genstartech

Pigtails Suitable for cylinder & terminal connector, coil tubing & pigtail design.

Pressure Gauge Pigtails | McMaster-Carr

Choose from our selection of pressure gauge pigtails in a wide range of styles and sizes. Same and Next Day Delivery.

5 Key Concepts of Pigtail Siphons

high?" "And what do pigtail siphons have to do with any of this?". I'll tell you the 5 fundamental concepts about pigtail siphons that make them essential for these

Pigtail, Hoses, & Fittings

Custom rigid brazed copper and tig welded stainless steel pigtails can be supplied to meet all requirements for 3000 and 6000PSI gas service. Konex hoses are used

Flexible Pigtails On Western Enterprises

Explore Western's extensive range of flexible hoses, pigtails, and fittings designed specifically for the gas industry. Whether it's high-pressure gas cylinder filling,

Reheat cracking failure of a welded Alloy 803 outlet pigtail tube used ...

An intensive failure investigation of the alloy 803 outlet pigtail tube, used in a steam hydrocarbon reforming furnace, was conducted in the current study, in order to clarify the failure root ...

Pipe Welding: Complete Guide to Process, Advantages

Pipe welding is one of the welding processes where long sections of pipe are welded. It is a technique where two or more pipes are joined through the

5 fundamental concepts about pigtail siphons

Since pigtail siphons are generally used vertically, the condensate generates what is called a liquid seal. This is a great way to protect the metering

Specialty Gas Hose

Often known as specialty gas hose, all-metallic gas pigtails are flexible hoses with all-metallic components for use in specialty gas applications or any applications

Reducing Downtime for Ammonia Plant Reformer Tube

Figure 3. Weld profiles developed with orbital GTAW welding system by Langfields for a) and b) the pigtail to reformer tube butt welds and c) and d) the pigtail to hot

What Is a Pigtail Connector: Types, Uses & Guide

Learn what a pigtail connector is, its types, uses, and benefits. Explore industries, installation tips, and how to choose the right solution.

SMR Outlet Pigtail Cracking & Creep Rupture

Creep and pressure / temperature cycling imposes severe loading on the internal and outlet tubing & piping. Although API 530 provides high temperature design guidance, API TR 942-A indicates many

38. Which items are widely used types of sanitary sewer pipe joints?1 ...

What are the most common types of sanitary sewer pipe joints? The most common sanitary sewer pipe joints include flanged pipe joints, solvent welded joints, rubber ring joints, and bell and spigot joints.

Pigtails

Harris® offers pigtails with a variety of end fittings, including common CGA connections with integral non-return check valves. Armor-cased pigtails come

Piggable Y or Wye Fitting — BKW Inc.

Y-shaped pipeline fittings that allow pigging and cleaning of pipelines. All our fittings are customized to your application.

Why Is There a Bend Under Pressure Gauges?

In industrial piping systems, it is common to see a curved pipe section—often referred to as a siphon tube, gauge bend, or pigtail —installed below a pressure

Contact Us

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