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Measuring Pressure on Ammonia Applications

TIP #: 0001

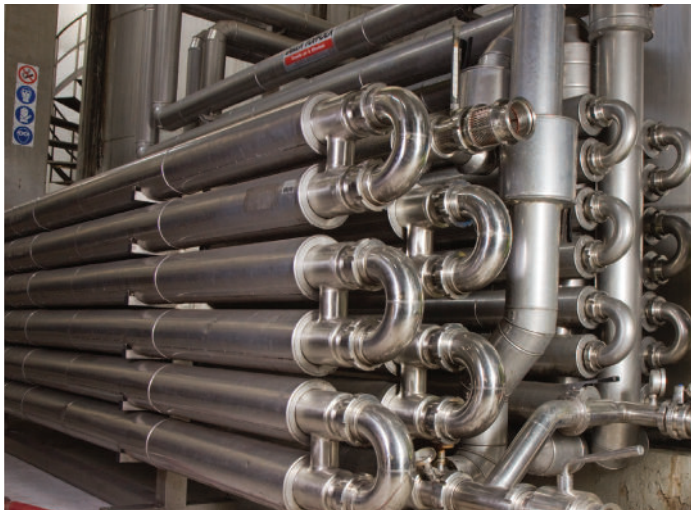
Applicable to:

Commercial Gauges
Industrial Gauges
Process Gauges

Overview

Anhydrous ammonia

"anhydrous" comes from the Greek word "anydros" meaning "waterless"



Making an anhydrous ammonia refrigerant pressure gauge

1.

Refrigeration

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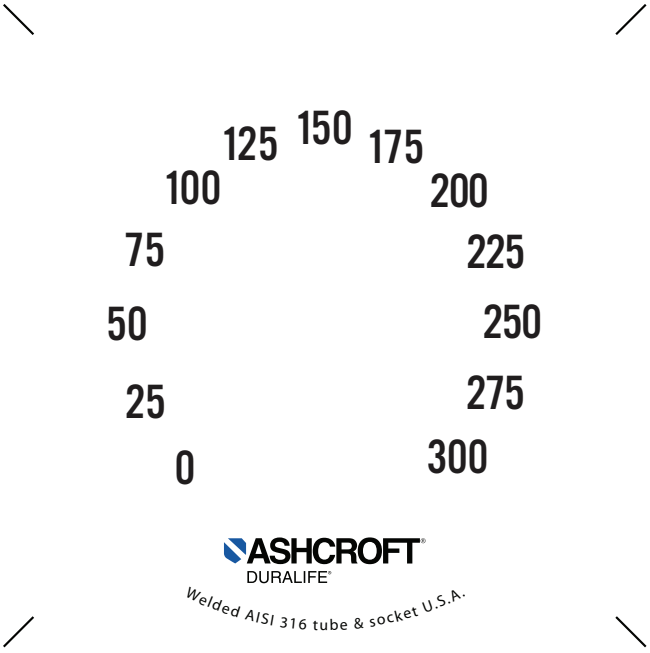

Fertilizer

Ammonia is an ideal fertilizer because it delivers a high concentration of nitrogen to promote plant growth. Traditionally, nitrogen was delivered to the soil in the form of solid particulate ammonium nitrate. While this chemical served its purpose, it also created potential environmental hazards due to nitrogen and phosphorus runoff that could contaminate rivers and lakes and cause toxic algae blooms.

To prevent these ill effects, a new delivery system using hollow blades or spikes has been developed to inject pressurized liquid anhydrous ammonia 10 to 20 centimeters beneath the surface of the soil. Upon release, the liquid immediately vaporizes, permeating the surrounding soil and reacting with ground moisture keeping it from evaporating back into the atmosphere.

Making an anhydrous ammonia fertilizer pressure gauge

1. Specify 316 stainless steel: Anhydrous ammonia use will require this wetted material to prevent failure due to corrosion.

2. While no specific dial is associated with this application, purchasers often desire an imprint of their company logo and/or the addition of an “Ammonia” designation. If required, specify the XDA custom dial option and provide specifications and logo artwork.

3. Common ranges: The majority of the gauges produced for anhydrous ammonia fertilization systems are ranged as:

4. Gauge model: Ashcroft offers a variety of models with 316 stainless steel wetted parts and the XDA custom dial option. Consult our on-line gauge selector or contact us for help choosing

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