



Krueger Sentry Gauge Expands Lineup of Hydrochloric Acid Tank Level Gauge Solutions

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Krueger Sentry Gauge, a U.S. manufacturer of liquid level monitoring equipment, announced an expanded lineup of hydrochloric acid tank level gauge solutions built for corrosion-resistant performance in HCl storage and processing environments. The expanded product line includes gauges configured for both bulk storage tanks and smaller drum containers, giving facility operators additional options for monitoring hydrochloric acid inventories without exposing personnel or equipment to the risks associated with corroded metal components.

Hydrochloric acid is widely recognized for its ability to degrade common metals, including high-grade 304 and 316 stainless steel, which are frequently specified in industrial gauge construction. When metal components come into prolonged contact with HCl, the resulting corrosion can compromise gauge accuracy, cause leaks, and in some cases release hydrogen gas as a byproduct of the acid-metal reaction. Facilities that rely on metal sight gauges or glass tube indicators for hydrochloric acid storage tanks have historically faced a choice between fragile glass components and metal parts prone to rapid deterioration.

Krueger Sentry Gauge's expanded hydrochloric acid tank level gauge lineup is built around chemically inert

thermoplastics rather than metal at every point of acid contact. Support rods are constructed from PEEK or Kynar (PVDF), while bushings and threaded fittings are made from PVC and floats from high-density polyethylene. According to the company, this all-plastic construction eliminates the pitting, rust, and structural degradation that commonly affect metal gauges used in acid service, extending service life and reducing the frequency of maintenance and replacement.

The expanded lineup includes the company's Type PD gauge, a top-mounted, direct-reading model designed for bulk hydrochloric acid storage tanks. The Type PD accommodates tank depths ranging from six inches to 12 feet and is compatible with double-wall tank configurations and pipe riser installations, which are common in facilities subject to secondary containment requirements. For smaller-volume storage, the company's Type PB gauge is designed for standard 55-gallon, 30-gallon, and 15-gallon drums, providing the same corrosion-resistant monitoring in a compact format suited to drum storage areas.

Both gauge models operate on a mechanical float-and-rod system that requires no electrical power, reducing potential failure points in hazardous chemical storage settings. The gauges mount using standard NPT tank openings, allowing for straightforward installation across a range of existing storage configurations. Optional accessories, including remote level alarms and digital monitoring components, can be added for facilities seeking additional automation or off-site visibility into tank levels.

"Facility managers dealing with hydrochloric acid have spent years choosing between gauges that corrode and gauges that break," said Lee Geurts, Vice President of Krueger Sentry Gauge. "Our goal with this expanded lineup was to give operators a monitoring option that holds up to the chemistry of the acid itself, rather than one they have to replace every few months."

Industry guidance for hydrochloric acid handling generally recommends plastic or plastic-lined materials for fittings and components in direct contact with the acid, a standard that informed the material selection across Krueger Sentry Gauge's product development. The company noted that secondary containment regulations applicable to many chemical storage facilities require monitoring systems compatible with double-walled tank designs, a configuration supported by the Type PD gauge.

Beyond material durability, the company pointed to safety considerations tied to gauge visibility and ease of reading. The top-mounted, at-a-glance design used across the expanded lineup allows personnel to check tank levels without opening the tank or approaching potential vapor exposure points. Vented gauge configurations are available for facilities managing closed-system requirements tied to vapor emissions.

Krueger Sentry Gauge manufactures its gauges in the United States and offers customization to specific tank dimensions and storage configurations. The company's broader product catalog includes liquid level gauges for other corrosive chemicals, including potassium hydroxide, sodium hypochlorite bleach, sulfuric acid, and

chlorine, reflecting a focus on chemical-resistant monitoring equipment for industrial and municipal storage applications.

"Every acid has its own corrosion profile, and hydrochloric acid is one of the more demanding ones we work with," Geurts said. "Expanding this lineup means facilities storing HCl in tanks or drums have a gauge option that was actually engineered around what the chemical does to standard materials, not adapted from a generic design."

The expanded hydrochloric acid tank level gauge lineup is available for both new tank installations and as a replacement option for facilities currently using metal or glass gauges. Krueger Sentry Gauge said its engineering team works directly with facility managers and engineers to match gauge specifications to individual tank dimensions and regulatory requirements.

For more information on Krueger Sentry Gauge's hydrochloric acid tank level gauge lineup, visit their website.

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Krueger Sentry Gauge

At Krueger Sentry Gauge, for over 75 years we have manufactured over three million liquid-level gauges. We provide high-quality custom tank gauges for a variety of industries and applications.

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