

Christy's®

PRODUCT DISTRIBUTOR OF RELIANCE ZINC CAPS

— PRODUCT INFORMATION & SPECIFICATIONS —



PRODUCT SPECIFICATIONS

Die cast with 600 tons of pressure

Meets or exceeds all MIL-A-18001J and ASTM B418-80 Specifications

Element	MIL-A-18001J	ASTM B418-80
Aluminum	0.10 - 0.50%	0.10 - 0.4%
Cadmium	0.025 - 0.15%	0.03 - 0.10%
Iron (maximum)	0.005%	0.005%
Lead (maximum)	0.006%	-
Copper (maximum)	0.005%	-
Silicon (maximum)	0.125%	-
Zinc (pure)	Remainder	Remainder

Underground & fresh water or in saline conditions
at temperatures above 140° F (60°C)

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RELIANCE ZINC CAPS

Corrosion Protection for Underground
Mechanical Joint Fittings

DESCRIPTION

- Reliance Zinc Caps offer cathodic protection to underground and submerged threads, bolts and nuts on glands, flanges and mechanical fittings. They are designed to be used on buried pipelines, in water treatment plants, weirs, lock gates and any other structures with exposed metallic threads.
- Applying a threaded Zinc Cap to the bolt head forms a galvanic cell causing the Zinc Cap to become a Sacrificial Anode.
- This adds many years to the life of a pipeline, stopping the costly corrosion of buried valves, fittings and mechanical joints, saving down time and repair costs.

UNDERSTANDING CORROSION

At \$2.2 trillion, the annual cost of corrosion worldwide is over 3% of the world's GDP, causing damage to pipelines and wastewater systems. Corrosion is a naturally occurring anomaly defined as the decomposition of a material (usually a metal) or its properties due to a reaction with its environment, that forms a galvanic cell. Moisture in the soil acts as an electrolyte combining with dissimilar metals in the pipeline. The moisture acting as a positive and the dissimilar metals acting as a negative create a galvanic reaction leading to a corrosive action that damages the metals parts of the pipeline. Attaching zinc caps which are more negative, to the threaded stud/ bolt causes the metal area to be more positive therefore allowing the more negative zinc cap to sacrifice itself, protecting the flange area and yielding years of life to the pipeline.

Available Sizes	Dimesions	Cap Weights
1/2" x 13 UNC	1.5" x 0.98" x 1.69"	6oz
5/8" x 11 UNC	1.5" x 0.98" x 1.69"	6oz
3/4" x 10 UNC	1.5" x 0.98" x 1.69"	6oz
7/8" x 9 UNC	1.5" x 0.98" x 1.69"	6oz
1" x 8 UNC	1.5" x 0.98" x 1.69"	6oz
1 1/8" x 7 UNC	2.3" x 1.25" x 1.88"	14oz
1 1/4" x 7 UNC	2.3" x 1.25" x 1.88"	14oz
1 1/2" x 6 UNC	2.3" x 1.25" x 1.88"	14oz