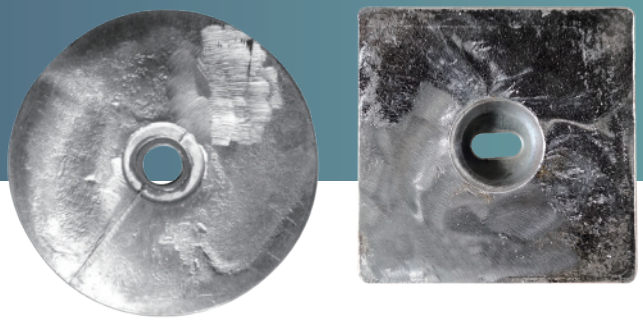
ALUMINUM CONDENSER ANODES



ISO 9001 QUALITY MANAGEMENT

CELEBRATED ENTERPRISE IN CATHODIC PROTECTION

JENNINGS ANODES

ALUMINUM CONDENSER ANODES

DATA SHEET

Aluminium anode is the most economical choice for corrosion protection in saline aqueous environments, where electrical resistivities are usually quite low. It has a lower weight but a much higher current efficiency than both magnesium and zinc anodes in salt water. Jennings Anodes offers a complete line of aluminum condenser anodes in a variety of shapes, weights and core configurations.

Quality Substrate Material

Casted in low-iron, high-purity alloys, our indium-activated aluminum anode is designed to meet the standard of ISO, NACE, DNV.

Standard / Element	GALVALUM III	DNV-RP-B401-2011	GS EP COR 201
Zinc (Zn)	2.0% ~ 6.0%	2.5% ~ 5.75%	4.75% ~ 5.75%
Indium (In)	0.01% ~ 0.02%	0.015% ~ 0.04%	0.015% ~ 0.02%
Silicon (Si)	0.08% ~ 0.2%	0.12% max.	0.06% ~ 0.12%
Iron (Fe)	0.13% max.	0.09% max.	0.12% max.
Copper (Cu)	0.006% max.	0.003% max.	0.003% max.
Cadmium (Cd)	—	0.002% max.	0.002% max.
Total Impurities	0.1% max.	0.1% max.	0.1% max.
Aluminum (Al)	Remainder	Remainder	Remainder



Low Driving Voltage

Our aluminium anode provides a stable performance in seawater and electrolytes containing chloride ions as its operating potential is kept between -1.05 to -1.10 volts.

Technical Measurement	Performance
Open Circuit Voltage (-V)	1.10 min.
Closed Circuit Voltage (-V)	1.05 min.
Current Capacity	1135 A.h/lbs (2500 A.h/kg)
Current Efficiency	90% min.
Consumption Rate	7.6 lbs/A·y (3.4 kg/A.y)

* The open/closed circuit voltage is with respect to a Ag/AgCl reference electrode.



Much Lighter in Weight

The aluminium condenser anode is less dense than zinc, making it lighter and easier for handling when fitting.



APPLICATIONS

Our aluminium condenser anodes are commonly used in cathodic protection for tank interiors.

- Inner surface protection of condenser water boxes
- Shell protection of heat exchanger
- Inner surface protection of chiller
- Tubes or tube sheets in the cooling water system

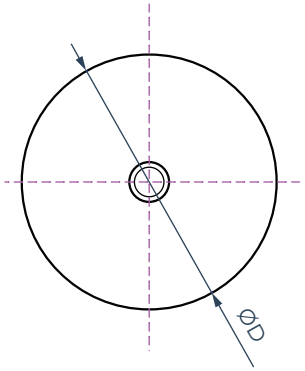
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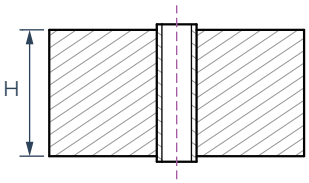
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SPECIFICATIONS

Round Type Anode

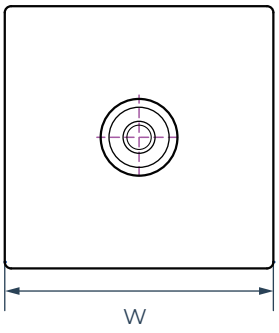


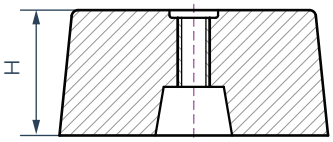


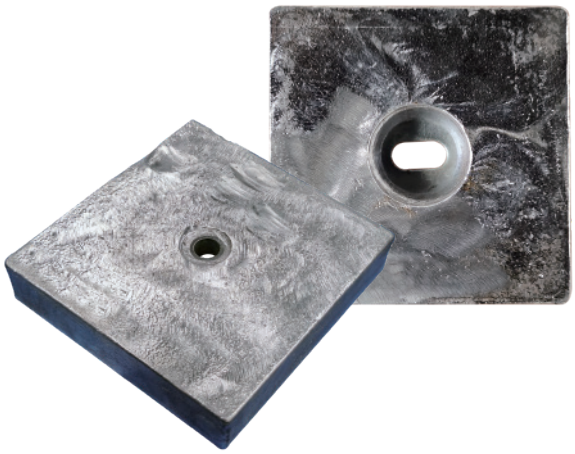


Item No.	Anode Dimensions		Insert Dimensions	Weight	
	Diameter	Height		N.W	G.W
JA-AL-R52	5" (127 mm)	2" (51 mm)	Ø 3/4" (Ø 19.05mm) Pipe	3.5 lbs (1.6 kg)	3.7 lbs (1.7 kg)

Square Type Anode







Item No.	Anode Dimensions		Insert Dimensions	Weight	
	Width	Height		N.W	G.W
JA-AL-SP13	8" (203 mm)	2" (51 mm)	Ø 3/4" (Ø 19.05mm) Pipe	12.5 lbs (5.7 kg)	12.7 lbs (5.8 kg)
JA-AL-SC13	8" (203 mm)	2" (51 mm)	Ø 3/4" (Ø 19.05mm) NPT Coupling	12.5 lbs (5.7 kg)	12.7 lbs (5.8 kg)
JA-AL-SP23	8" (203 mm)	4" (102 mm)	Ø 3/4" (Ø 19.05mm) Pipe	23 lbs (10.4 kg)	23.2 lbs (10.5 kg)
JA-AL-SC23	8" (203 mm)	4" (102 mm)	Ø 3/4" (Ø 19.05mm) NPT Coupling	23 lbs (10.4 kg)	23.2 lbs (10.5 kg)

Notes: All dimensions and weights are nominal. The parameter provided is subject to variation in material compositions and Jennings Anodes foundry tolerance.

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TESTING DETAILS

We employ ISO 9001:2015 quality management system and rigorous internal testing standards to ensure the optimum lifespan and performance of our anodes. Each anode is labelled with a unique serial number for quality tracking.

Technical Measurement	Chemical Composition	Electrochemical Performance	Physical Properties
Testing Standard	DNV-RP-B401	NACE TM0190	Foundry ITP
Testing Content	Chemical Analysis	Circuit Potential Current Capacity Current Efficiency Electrical Resistance	Dimension & Weight Surface Finish Steel Insert
Equipment	Optical Emission Spectrometer OBLF QSN 750	Electrochemical Analyzer EPI 200	Calibrated Digital Measuring Devices

* Third party testing is conducted by customer's special request at extra charge.





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