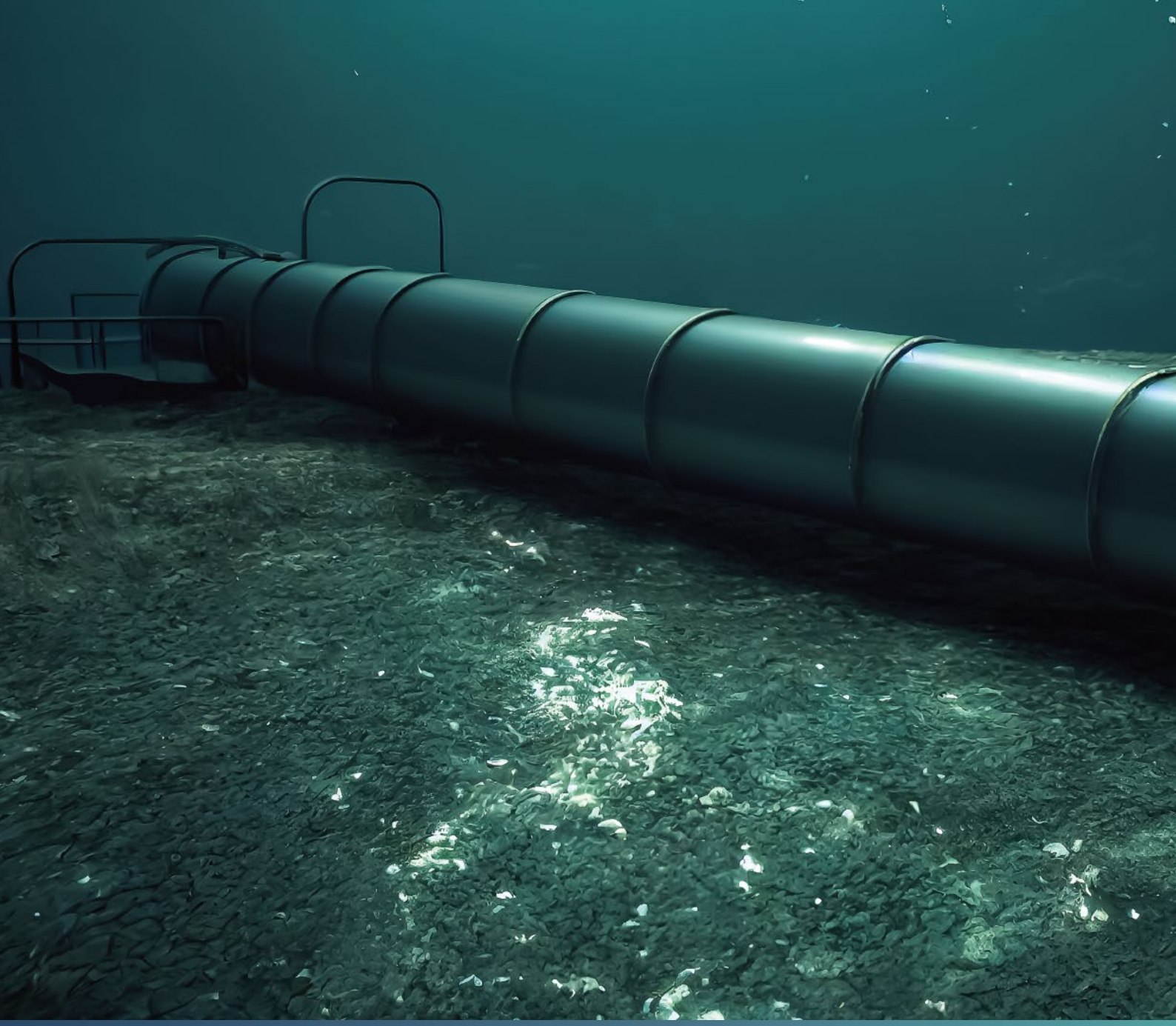
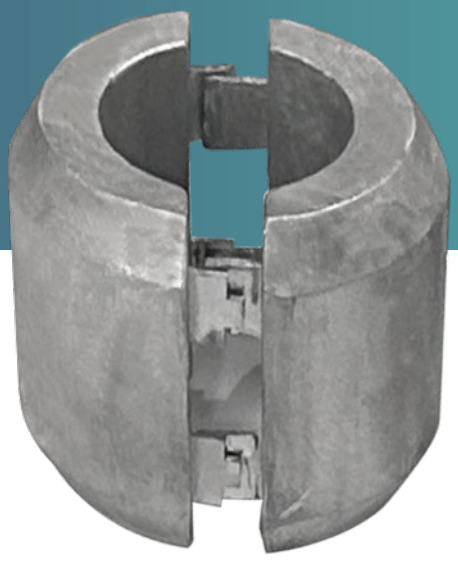


ALUMINUM BRACELET ANODES



50 YEARS EXPERIENCE IN CATHODIC PROTECTION

JENNINGS ANODES

ALUMINUM BRACELET ANODES

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Jennings Anodes

Aluminum bracelet anode is one of sacrificial anode's type which can be used in cathodic protection system of submarine/offshore pipelines, riser & dog leg of platform, steel pile of jetty, any circular steel structure, etc. Jennings Anodes offers a range of half shell and segmented bracelet anodes that mostly can be installed in sea water or sea mud environment. The bracelet anode, consisting of multiple individual anode sections, is suitable for direct attachment around the circumference of protected sturcture by thermit-welding or bolted clamp.

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.

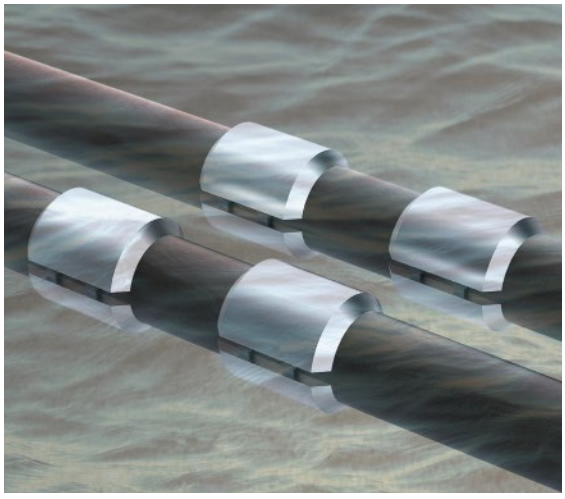
Standard / Element	GALVALUM III	DNV-RP-B401-2011	GS EP COR 201
Zinc (Zn)	2.0% ~ 6.0%	2.5% ~ 5.75%	4.75% ~ 5.75%
Indium (In)	0.01% ~ 0.02%	0.015% ~ 0.04%	0.015% ~ 0.02%
Silicon (Si)	0.08% ~ 0.2%	0.12% max.	0.06% ~ 0.12%
Iron (Fe)	0.13% max.	0.09% max.	0.12% max.
Copper (Cu)	0.006% max.	0.003% max.	0.003%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

This 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.



APPLICATIONS

Our aluminum bracelet anode is widely used in sacrificial anode cathodic protection (SACP) system. The number of segments depends on the diameter of the structure it encloses.

- Underwater oil or gas pipeline
- Jetty steel pile
- Offshore oil rig dog leg
- Offshore platform foundation

ALUMINUM BRACELET ANODES

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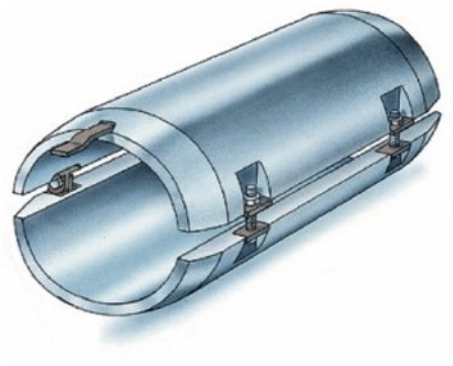
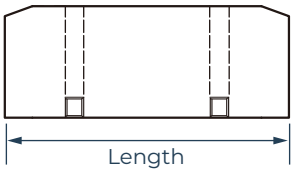
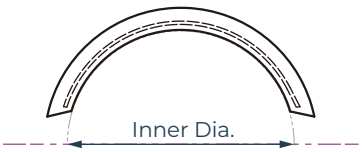
SPECIFICATIONS

- Half Shell Bracelet Anode (Tapered End, Bolted)







Item No.	Anode Dimensions			Anode Gap	Weight	
	Inner Diameter	Length	Thickness		N.W	G.W
JA-AL-BLB01	4.5” (114 mm)	12.0” (305 mm)	1.5” (38 mm)	2.0” (50 mm)	24.3 lbs (11.0 kg)	27.6 lbs (12.5 kg)
JA-AL-BLB02	5.6” (141 mm)	15.7” (400 mm)	1.5” (38 mm)	2.0” (50 mm)	37.5 lbs (17.0 kg)	41.9 lbs (19.0 kg)
JA-AL-BLB03	8.7” (220 mm)	16.1” (410 mm)	2.6” (65 mm)	2.0” (50 mm)	97.0 lbs (44.0 kg)	101.4 lbs (46.0 kg)
JA-AL-BLB04	10.8” (275 mm)	22.0” (560 mm)	1.8” (45 mm)	2.0” (50 mm)	119.0 lbs (54.0 kg)	125.7 lbs (57.0 kg)
JA-AL-BLB05	12.8” (325 mm)	19.7” (500 mm)	2.0” (50 mm)	2.0” (50 mm)	149.9 lbs (68.0 kg)	165.3 lbs (75.0 kg)
JA-AL-BLB06	16.1” (408 mm)	20.1” (510 mm)	1.8” (45 mm)	2.0” (50 mm)	172.0 lbs (78.0 kg)	186.3 lbs (84.5 kg)

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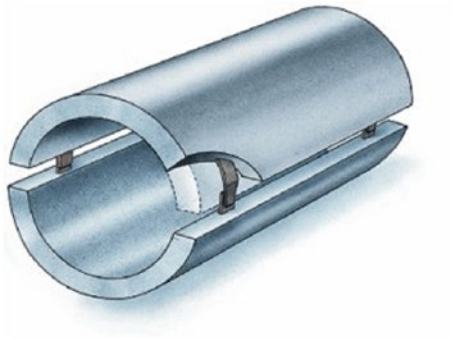
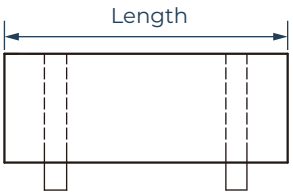
Half Shell Bracelet Anode (Square End, Welded)





Item No.	Anode Dimensions			Anode Gap	Weight	
	Inner Diameter	Length	Thickness		N.W	G.W
JA-AL-BLW01	6.9” (175 mm)	19.5” (495 mm)	1.6” (40 mm)	2.0” (50 mm)	62.8 lbs (28.5 kg)	66.1 lbs (30.0 kg)
JA-AL-BLW02	8.7” (220 mm)	16.3” (415 mm)	1.8” (45 mm)	2.0” (50 mm)	88.2 lbs (40.0 kg)	93.7 lbs (42.5 kg)
JA-AL-BLW03	10.8” (275 mm)	21.7” (550 mm)	2.0” (50.8 mm)	2.0” (50 mm)	137.8 lbs (62.5 kg)	149.9 lbs (68.0 kg)
JA-AL-BLW04	12.8” (325 mm)	18.9” (480 mm)	1.6” (40 mm)	2.0” (50 mm)	112.4 lbs (51.0 kg)	121.3 lbs (55.0 kg)
JA-AL-BLW05	13.2” (336 mm)	31.6” (802 mm)	1.2” (30 mm)	2.0” (50 mm)	121.3 lbs (55.0 kg)	125.7 lbs (57.0 kg)
JA-AL-BLW06	16.0” (406 mm)	13.8” (350 mm)	2.6” (65 mm)	2.0” (50 mm)	178.6 lbs (81.0 kg)	187.4 lbs (85.0 kg)
JA-AL-BLW07	18.0” (457 mm)	21.7” (550 mm)	2.0” (51 mm)	2.0” (50 mm)	275.6 lbs (125 kg)	282.2 lbs (128 kg)
JA-AL-BLW08	20.1” (510 mm)	9.8” (250 mm)	2.6” (65 mm)	2.0” (50 mm)	162.0 lbs (73.5 kg)	177.5 lbs (80.5 kg)
JA-AL-BLW09	21.1” (536 mm)	28.1” (714mm)	1.5” (38 mm)	2.0” (50 mm)	230.4 lbs (104.5 kg)	238.1 lbs (108 kg)
JA-AL-BLW10	24.0” (610 mm)	16.1” (410 mm)	2.0” (51 mm)	2.0” (50 mm)	233.7 lbs (106 kg)	257.9 lbs (117 kg)
JA-AL-BLW11	27.3” (694 mm)	12.6” (320 mm)	1.6” (40 mm)	2.0” (50 mm)	120.2 lbs (54.5 kg)	127.9 lbs (58.0 kg)
JA-AL-BLW12	27.5” (698 mm)	16.0” (406 mm)	2.7” (68 mm)	3.0” (75 mm)	294.3 lbs (133.5 kg)	304.2 lbs (138 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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