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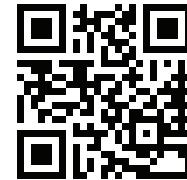
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RELIANCE PRODUCTS - 100% MANUFACTURED IN NORTH AMERICA

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reliance ANODES

FREQUENTLY ASKED QUESTIONS

ARE ALL ZINC ANODES THE SAME?

No, all zinc anodes are not the same. The chemical make-up of the alloy (or lack of alloy), has a significant effect on the anodes ability to protect a vessel.

WHICH ZINC IS BEST?

The best zinc to use is the "Mil-Spec" Alloy, which was developed by the US Navy back in the 1950's and has continued to this day with the most recent specification A-18001-K.

WHY SHOULD I USE MIL-SPEC ZINC?

The reason you should use Mil-Spec zinc is that it will consistently keep working by sacrificing itself so your boat's components will not corrode due to passivation.

WHAT IS PASSIVATION?

Passivation means the anode stopped working or has reduced effectiveness.

WHAT CAUSES PASSIVATION?

It is caused by a build-up of iron oxides that occur from the iron content in the anode.

HOW CAN THE ANODES AVOID BECOMING PASSIVATED?

By insisting on Military Specification A-18001-K, you are insuring proper protection for your boat, as the alloy limits impurities and adds elements that allow the anode to properly sacrifice itself at optimum efficiency.

CERTAIN MANUFACTURERS CLAIM THE ANODES THEY PRODUCE ARE 99.99% PURE ZINC. DOES THAT MAKE SENSE?

No, it does not. The fact is Mil Spec Zinc Anodes are not 99.99% pure zinc. Mil Spec Zinc Anodes are constructed with the following alloy specifications:

MIL-SPEC MIL-A-18001

Cd025% - .07%
Cu005% Max
Fe005% Max
Bp006% Max
Al	10% - .50%
Zn.....	Remainder

WHAT WOULD HAPPEN IF I DIDN'T USE MIL-SPEC ZINC?

If Mil-Spec zinc is not used on your vessel, you are risking components on your boat becoming "anodes", hence sacrificing themselves because of contamination in the zinc that's being used. The US Navy has too much of an investment, as you do, to take a chance with a product that may or may not get the job done. Their research has given them the proper alloy to consistently provide adequate protection and predictable results.

SOME ANODE MANUFACTURERS CLAIM THAT THEIR ANODES LAST LONGER THAN ALL OTHERS. DOES THAT MAKE SENSE?

No, it does not. For Anodes to work properly they must be consumed. If Anodes do not sacrifice themselves they are not functioning correctly. If Anodes are passivated, serious corrosion damage could occur to the metal hull or other metal parts of the boat or ship causing several thousand dollars in damage. The last thing a boat owner should want is for their anodes to last a long time. The fact is, the anodes life span is governed by its weight. If the consumption of the anode is slower, there is a considerable risk that the minimum voltage relative to the most susceptible metal component on the hull, may not be met, resulting in corrosion.

IS IT TRUE SOME MANUFACTURERS USE RECLAIMED ZINC IN THE PRODUCTION OF THEIR ANODES.

Yes, apparently so. This is not a good idea as one has no idea where the zinc originates and the manufacturer is taking great risk of producing contaminated anodes that do not perform.

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WHY USE "RELIANCE" ANODES?

Reliance anodes are made from a high purity zinc with added catalysts to produce an "activated alloy", ensuring the anodes give one hundred percent of themselves to protect your boat from corrosion action. In order for an anode to work properly it must be free of unwanted impurities.

UNDERSTANDING "MIL-SPEC: MIL-A-18001"

The United States Naval Command joined forces with the International Zinc Institute in the early 1950's to research and improve the performance of common zinc as a sacrificial anode. They discovered the elimination of iron contamination to less than fourteen parts in ten thousand, coupled with the addition of controlled amounts of aluminum and cadmium, enhanced the anodes performance significantly. The research yielded the US Naval Mil-Spec Mil-A-18001 the highest standard of anodes quality.

DON'T LET CORROSION EAT INTO YOUR INVESTMENT - DEMAND "RELIANCE" MIL SPEC ANODES.

GALVANIC SERIES OF VARIOUS METALS EXPOSED TO SEA WATER:

Magnesium	Yellow Brass	Copper
Zinc	Galvanized Steel	Aluminum 6053
Silicon Bronze	Cadmium	G-Bronze
M-Bronze	Mild Steel	Silver Solder
Wrought Iron	Cast Iron	67 Ni-33 Cu Alloy (Monel)
Titanium	Lead-Tin Solders	Lead
Tin	Silver	Gold
Naval Brass	Nickel (Active)	CATHODIC (Passive, Most Noble)
18-8 Stainless Steel, Type 304 (Active)	18-8 Stainless Steel, Type 304 (Passive)	
18-12-3 Stainless Steel, Type 316 (Passive)	13" Chromium Stainless Steel, Type 410 (Passive)	

Reliance Commercial and Pleasure Craft Anodes

Self sacrificing characteristics of zinc and aluminum are in wide spread use as galvanic anodes for cathodic protection of marine craft, ballast, sea water piers, drydocks, heat exchangers and structures, providing low cost protection against corrosion.

Reliance zinc anodes are produced in alloy meeting U.S. mil spec MIL-A-18001 as per chart.

Reliance aluminum anodes are produced in alloy as per chart.

ANODE CAVITATION DISCLAIMER:

Certain anodes are subject to cavitation. Cavitation may cause these anodes to consume more rapidly.

All anodes should be inspected on a regular basis so as to ensure the vessel is fully protected.

ZINC ALLOY - MIL-A-18001 & ASTM B-418 - TYPE I

Cd	0.025% - 0.07%	— —
Cu	0.005% MAX.	0.004% MAX
Fe	0.005% MAX.	0.090% MAX
In	— —	0.014% - 0.020%
Bp	0.006% MAX.	— —
Mg	— —	0.001% MAX.
Si	— —	0.080% - 0.200%
Al	0.100% - 0.500%	REMAINDER
Zn	REMAINDER	4.000% - 6.500%
OTHER	— —	0.020% MAX

FOR SALT WATER ONLY

ALUMINUM ALLOY MIL-A-24779

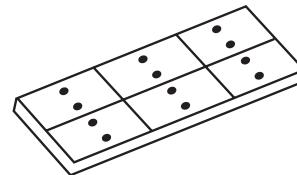
FOR SALT AND BRACKISH WATER ONLY

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COMMERCIAL PLATES**ZINC PLATES**

NOM. DIMENSIONS	NOM. WEIGHT	
	lbs.	(kg)
1/2" x 3" x 3"	1.25	(.57)
1/2" x 3" x 6"	2.40	(1.09)
1/2" x 6" x 6"	4.75	(2.16)
1/2" x 6" x 12"	9.50	(4.32)
3/4" x 3" x 3"	1.75	(.80)
3/4" x 3" x 6"	3.50	(1.59)
3/4" x 6" x 6"	7.00	(3.18)
3/4" x 6" x 12"	14.00	(6.36)
1" x 3" x 6"	4.50	(2.05)
1" x 3" x 3"	2.25	(1.02)
1" x 6" x 6"	9.00	(4.09)
1" x 6" x 12"	18.00	(8.18)



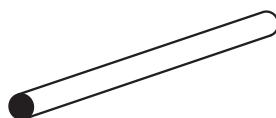
*Plates available in Aluminum Alloy

*Bonding Wire available for 1/2" Plates

Commercial Rods**COMMERCIAL RODS**

ZINC RODS (Mil-Spec)		ALUMINUM RODS (Mil-Spec)	
NOM. DIMENSIONS	NOM. WEIGHT	NOM. DIMENSIONS	NOM. WEIGHT
	lbs. (kg)		lbs. (kg)
3/8" x 6'0"	2.0 (.91)	-	-
1/2" x 6'0"	3.6 (.41)	-	-
5/8" x 78"	6.2 (3.01)	-	-
3/4" x 78"	9.0 (4.09)	-	-
7/8" x 78"	12.2 (5.55)	-	-
1" x 78"	15.9 (7.23)	-	-
1-1/4" x 78"	24.8 (11.27)	-	-
1-1/2" x 2'0"	11.0 (5.0)	1-1/2" x 2'0"	8.00 (3.63)
2" x 2'0"	19.9 (9.05)	2" x 2'0"	10.00 (4.54)
2-1/2" x 2'0"	30.6 (13.91)	2-1/2" x 2'0"	14.00 (6.35)
3" x 2'0"	44.1 (20.05)	3" x 2'0"	17.00 (7.73)
3-3/4" x 2'0"	73.5 (33.41)	3-3/4" x 2'0"	35.00 (15.91)
4" x 2'0"	78.4 (34.64)	4" x 2'0"	40.00 (18.18)
5" x 1'0"	61.3 (27.86)	5" X 1'0"	30.00 (13.64)

*Rods also available in 12" lengths



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Anodes

ZINC FOR SALT WATER

ALUMINUM FOR SALT AND BRACKISH WATER

Commercial Propeller Nut Anodes

COMMERCIAL PROPELLER NUT ANODES

ZINC ANODES			ALUMINUM ANODES			NOMINAL DIMENSIONS					
TYPE NUMBER	NOM. WEIGHT lbs.	(kg)	TYPE NUMBER	NOM. WEIGHT lbs.	(kg)	A-DIA (ID) in (mm)	B-DIA (OD) in (mm)	C-DEPTH in (mm)			
A	2.4	(.90)	AA	.8	(.35)	2.0	(50)	2.75	(69)	2.875	(73)
B	2.6	(1.15)	AB	1.1	(.50)	2.25	(57)	3.0	(76)	3.0	(76)
1	4.0	(1.80)	A1	1.7	(.75)	2.5	(63)	3.375	(85)	3.625	(92)
2	4.9	(2.50)	A2	2.3	(1.05)	2.875	(73)	3.75	(95)	4.0	(101)
3	5.8	(2.70)	A3	2.5	(1.15)	3.25	(82)	4.125	(104)	4.0	(101)
4	8.0	(3.40)	A4	3.2	(1.45)	3.75	(95)	4.625	(117)	4.5	(114)
5	10.3	(5.00)	A5	4.6	(2.10)	4.25	(107)	5.25	(133)	5.0	(127)
6	11.5	(5.20)	A6	4.8	(2.20)	4.625	(117)	5.625	(142)	5.5	(139)
7	13.0	(5.90)	A7	5.5	(2.50)	5.0	(127)	6.0	(152)	6.0	(152)
8	17.8	(7.60)	A8	7.0	(3.20)	5.5	(139)	6.625	(168)	6.375	(161)
9	24.8	(8.85)	A9	8.2	(3.70)	6.0	(152)	7.125	(180)	6.75	(171)
10	25.5	(11.35)	A10	10.5	(4.75)	6.5	(165)	7.75	(196)	7.0	(177)
11	29.8	(12.70)	A11	11.8	(5.35)	7.0	(177)	8.125	(206)	8.125	(206)
12	38.5	(16.80)	A12	15.9	(7.20)	7.5	(190)	8.75	(222)	9.0	(228)



Commercial Ballast Tank Anodes

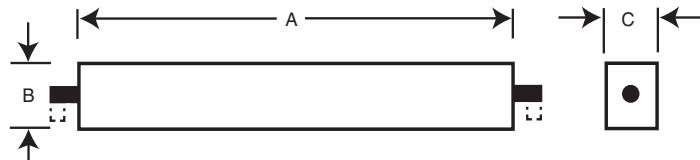
These Ballast Tank Anodes are available in any length up to the maximum shown in the table. Supplied with straight or bent rod extensions. Other rod sizes and configurations may be specified by purchaser.

COMMERCIAL BALLAST TANK ANODES

WELD ON

ZINC ANODES			ALUMINUM ANODES			NOMINAL DIMENSIONS					
TYPE NUMBER	NOM. WEIGHT lbs.	(kg)	TYPE NUMBER	NOM. WEIGHT lbs.	(kg)	A-LENGTH in (mm)	B-WIDTH in (mm)	C-DEPTH in (mm)			
ZMD 3602	90.0	(40.91)	AMD 3602	35.0*	(16.0)	60.0*	(1524)	2.5	(64)	3.0	(76)

CUSTOM SIZES AVAILABLE



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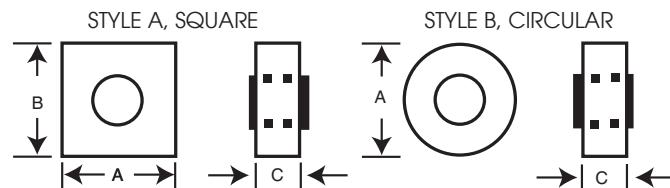
Commercial
Anodes



ZINC FOR SALT WATER**ALUMINUM FOR SALT AND BRACKISH WATER**

Commercial Heat Exchanger Anodes

These Anodes are used on vessels of all sizes for protection of Heat Exchangers and other areas where space is a limiting factor. Style A Anodes are square, while Style B Anodes are cast in a circular configuration. Both these types have steel inserts cast integrally. Inserts project approximately one-eight inch on side and provide five-eights inch clearance hole for bolt-on installation to studs welded to the attachment area. 1/2" & 3/8" insert available 5/8" & 1/2" bolt respectively.



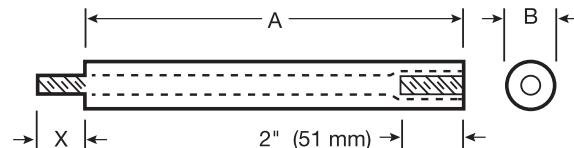
COMMERCIAL HEAT EXCHANGER ANODES (SMALL TO LARGE VESSELS)

BOLT ON

ZINC ANODES			ALUMINUM ANODES			NOMINAL DIMENSIONS - STYLE A				
TYPE NUMBER	NOM. WEIGHT lbs. (kg)	TYPE NUMBER	NOM. WEIGHT lbs. (kg)	A-DIA.	STYLE B	A-LENGTH in (mm)	B-WIDTH in (mm)	C-DEPTH in (mm)		
STYLE A - SQUARE										
H1B6 or ZEP	9.0 (4.10)	AH1B6 or AZEP	3.8 (1.70)	6.0	(152)	6.0	(152)	1.0	(25)	
STYLE B - CIRCULAR										
H2B2 or ZEP 2"	.8 (.35)	AH2B2, AZEP 2"	.3 (.15)	2.0D	(50)	-	-	1.0	(25)	
H2B3 or ZEP 3"	1.8 (.80)	AH2B3, AZEP 3"	.7 (.30)	3.0D	(76)	-	-	1.0	(25)	
H2B4 or ZEP 4"	3.2 (1.45)	AH2B4, AZEP 4"	1.3 (.60)	4.0D	(101)	-	-	1.0	(25)	
H2B5 or ZEP 5"	4.9 (2.20)	AH2B5, AZEP 5"	2.0 (.90)	5.0D	(127)	-	-	1.0	(25)	
H2B6 or ZEP 6"	7.1 (3.20)	AH2B6, AZEP 6"	3.0 (1.35)	6.0D	(152)	-	-	1.0	(25)	
H2B9 or ZEP 9"	16.2 (7.35)	AH2B9, AZEP 9"	7.05 (3.20)	9.0D	(229)	-	-	1.0	(25)	
H2B11 or ZEP 11"	24.7 (11.2)	AH2B11, AZEP 11"	10.75 (4.88)	11.0D	(279)	-	-	1.0	(25)	

HEATER TREATER ANODES

ZINC ANODES			NOMINAL DIMENSIONS				MOUNTING
TYPE NUMBER	NOM. WEIGHT lbs. (kg)	A-LENGTH in (mm)	B-WIDTH in (mm)	X in (mm)			
TREATER Z321	39.0 (17.70)	21.5 (546)	3.00 (76)	1.0, 1.5 (25, 38)			THREADED
TREATER Z321A	39.0 (17.70)	21.5 (546)	3.00 (76)	4.0 (102)			THREADED
TREATER Z330	56.0 (25.40)	30.0 (762)	3.00 (76)	1.0, 1.5 (25, 38)			THREADED
TREATER Z330A	56.0 (25.40)	4.00 (102)	1.25 (32)	4.0 (102)			THREADED

**RELIANCE PRODUCTS - 100% MANUFACTURED IN NORTH AMERICA****reliance****Commercial
Anodes**

This line provides a full range of types and sizes of hull anodes for small to large commercial vessels and structures. Available in weld-on and bolt-on styles with either steel or aluminum inserts cast as integral parts of the anodes.

COMMERCIAL HULL ANODES (MEDIUM TO LARGE VESSELS)

ZINC ANODES TYPE NUMBER	NOM. WEIGHT lbs. (kg)	ALUMINUM ANODES TYPE NUMBER	NOM. WEIGHT lbs. (kg)	NOMINAL DIMENSIONS							
				A-LENGTH in (mm)	B-WIDTH in (mm)	C-DEPTH in (mm)	D-C/C in (mm)				
BAR ANODES											
WELD ON											
ZHS-50	48.0 (22.7)	AZHS-50	21.0 (9.5)	24.0 (609)	4.0 (101)	2.0 (50)					
ZMA 2204	37.0 (21.5)	AMD 2204	20.0 (9.1)	20.0 (508)	4.0 (101)	2.0 (50)					
ZMA 2244	48.0 (25.9)	AMD 2244	24.0 (10.9)	24.0 (609)	4.0 (101)	2.0 (50)					
ZMA 3305	71.5 (32.4)	AMD 3305	30.0 (13.6)	30.0 (762)	5.0 (127)	3.0 (76)					
ZMA 3365	88.0 (39.9)	AMD 3365	37.0 (15.0)	36.0 (914)	5.0 (127)	3.0 (76)					
ZMA 4545	207.0 (93.9)	AMD 4545	87.0 (39.5)	54.5 (1384)	4.5 (114)	3.75 (95)					
ZMA 2248	310.0 (140.62)	AMD 2248	120.0 (54.43)	48 (1220)	5.0 (127)	5.0 (127)					
BOLT ON											
*P5B2	23.5 (10.6)	AP5B2	10.0 (4.5)	24.0 (609)	3.0 (76)	1.25 (31)	12.0 (304)				
*P7B2, *ZHC-50	44.5 (21.3)	AP7B2, AZHC-50	19.8 (8.9)	24.0 (609)	4.0 (101)	2.00 (50)	12.0 (304)				
ZSC-12	12.0 (5.45)	AZSC-12	5.0 (2.3)	12.0 (305)	3.0 (76)	1.25 (31)	6.0 (152)				
ZM-17	18.0 (8.00)	AZM-17	7.5 3.4	24 (609)	3 (76)	1.125 (29)	12 (304)				
ZM-23	28.0 (12.7)	AZM-23	12 5.44	24 (609)	3 (76)	1.50 (38)	12 (304)				
PLATE ANODES											
WELD ON											
Z2, ZHS-23, ZHS-10	23.0 (10.6)	AZ2, AZHS-23, AHS-10	10.0 (4.5)	12.0 (304)	6.0 (152)	1.25 (31)					
ZMA 1126		AMD 1126									
ZHS-47	45.0 (20.46)	AZHS-47	19.8 (9.0)	12.0 (304)	6.0 (152)	2.5 (64)					
BOLT ON											
Z1, ZHC-23	23.0 (10.4)	AZ1, AZHC-23	9.7 (4.4)	12.0 (304)	6.0 (152)	1.25 (31)	6.0 (152)				
ZHC-25	25.0 (11.3)	AZHC-25	11.0 (5.0)	12.0 (304)	6.0 (152)	1.5 (38)	6.5 (165)				
ZHC-47	44.0 (21.3)	AZHC-47	19.8 (9.0)	12.0 (304)	6.0 (152)	2.5 (64)	6.0 (152)				
H20B	18.9 (8.5)	AH20B	8.0 (3.6)	12.0 (304)	6.0 (152)	1.3 (48)	1.0 (25)				

CUSTOM SIZES AVAILABLE

* Designates Slots in Aluminum and Steel Inserts. Please specify when ordering.

BOLT HOLES CAN BE ADDED ON STRAPS AS REQUIRED

Commercial Streamlined Anodes

Used to protect hull and various areas of large vessels:-keel rudder, bottom plates, ballast tanks, bilges, cargo tanks, structures, available with steel or aluminum straps.

COMMERCIAL STREAMLINED ANODES

WELD ON

ZINC ANODES TYPE NUMBER	NOM. WEIGHT lbs. (kg)	ALUMINUM ANODES TYPE NUMBER	NOM. WEIGHT lbs. (kg)	NOMINAL DIMENSIONS				
				A-LENGTH in (mm)	B-WIDTH in (mm)	C-DEPTH in (mm)	D-C/C in (mm)	
Z-22	23.0 (10.45)	AZ-22	10.0 (4.55)	14.0 (356)	6.50 (165)	1-1/2 (38)	-	-
Z-26 / ZHS-26	25.0 (11.36)	AZ-26 / AZHS-26	12.0 (5.45)	13.25 (336)	4.25 (108)	2-1/4 (57)	-	-

RELIANCE PRODUCTS - 100% MANUFACTURED IN NORTH AMERICA



Small, medium and large vessels. Hulls, sea tanks, bilges, ballast tanks, structures. Steel or aluminum straps available.

COMMERCIAL SEMI-STREAMLINED ANODES

WELD ON

ZINC ANODES			ALUMINUM ANODES			NOMINAL DIMENSIONS			
TYPE NUMBER	NOM. WEIGHT lbs. (kg)	TYPE NUMBER	NOM. WEIGHT lbs. (kg)			A-LENGTH in (mm)	B-WIDTH in (mm)	C-DEPTH in (mm)	D-C/C in (mm)
Z3 or ZSS	10.0 (4.50)	AZ3 or AZSS	5.0 (2.25)			12.0 (304)	3.0 (76)	1.25 (31)	
Z4	5.0 (2.25)	AZ4	2.1 (.95)			6.0 (152)	3.5 (88)	1.0 (25)	
Z6	3.0 (1.35)	AZ6	1.3 (.60)			5.0 (127)	2.5 (63)	1.0 (25)	
Z19	23.0 (10.40)	AZ19	10.0 (4.55)			25.0 (635)	3.125 (79)	1.25 (31)	
Z-220	62.0 (28.12)	AZ-220	26.0	11.79	27.0 (685)	5.0 (127)	1.75 (44)		
ZC-5	5.0 (2.25)	AZC-5	2.1 (.95)			9.0 (228)	2.25 (57)	1.25 (31)	
ZC-7	7.0 (3.15)	AZC-7	3.0 (1.35)			9.0 (228)	2.25 (57)	1.625 (41)	
MD-661	9.0 (4.00)	AMD-661	3.86 (1.75)	6.0	152)	6.0 (152)	2.5 (64)		
MDZ-519	35.0 (15.88)	AMDZ-519	13.46 (6.11)	19.0	(481)	5.0 (127)	1.75 (44)		

BOLT ON

Z3BS	S - AL	8.5 (3.85)	AZ-3BS	S - AL	4.0 (1.68)	12.0 (304)	3.0 (76)	1.50 (38)	6-8 (152-203)
MD-Z-03B		13.7 (6.23)	AMD-Z-03B		5.2 (2.36)	12.0 (304)	3.0 (76)	1.50 (38)	8-9 (203-208)
MDZ-24B		20.0 (9.07)	AMDZ-24B		9.0 (4.02)	14.0 (356)	6.5 (165)	1.50 (38)	5 (127)
ZHC-11	S - GAL	11.0 (5.00)	AZHC-11	S - GAL	4.8 (2.20)	12.0 (304)	3.0 (76)	1.50 (38)	8-9 (203-208)
ZHC-12	S - AL	10.0 (4.50)	AZHC-12	S - AL	5.0 (2.25)	12.0 (304)	3.0 (76)	1.50 (38)	6 (152)
ZHC-15	S - GAL	16.0 (7.27)	AZHC-15	S - GAL	6.5 (2.95)	16.0 (400)	3.0 (76)	1.75 (44)	9 (229)
ZHC-15 HEAVY S - GAL		18.0 (8.16)	AZHC-15 HEAVY S - GAL		8.65 (3.92)	18.0 (456)	4.0 (101)	1.75 (44)	9 (229)
ZHC-16	S - GAL	16.0 (7.27)	AZHC-16	S - GAL	7.0 (3.16)	16.0 (400)	3.5 (88)	1.75 (44)	9 (229)
ZHC-18(CL-18)	S - GAL	18.0 (8.18)	AZHC-18(CL-18)	S - GAL	7.8 (3.60)	16.0 (400)	3.5 (88)	2.00 (50)	9 (229)
DIVERS SUPER HEAVY S-AL		20.0 (9.07)	ADIVERS SUPER HEAVY S-AL		8.33 (3.78)	14.0 (356)	6.5 (165)	1.25 (32)	5.50 (140)
*MD-ZHC-22 S-AL		22.0 (9.980)	*AMD-ZHC-22 S-AL		7.78 (3.53)	17.0 (425)	3.75 (94)	2.00 (50)	8.00 (203)
ZD-72B	ST	26.0 (11.79)	AZD-72B	ST	10.0 (4.54)	18.0 (456)	4.0 (101)	2.25 (57)	9 (228)
ZD-72BM	ST	17.0 (7.71)	AZD-72BM	ST	6.5 (2.95)	18.0 (456)	4.0 (101)	1.50 (38)	8-9 (240)
Z-15B	GAL	15.0 (6.90)	AZ-15B	GAL	6.33 (2.88)	18.0 (456)	3.0 (76)	1.50 (38)	8.87 (229)
MD-ZD-76 MINI EURO S - AL		3.0 (1.318)	AMD-ZD-76 MINI EURO S - AL		1.45 (0.66)	8.0 (200)	2.5 (65)	1.25 (32)	4.25 (110)
ZD-77 EURO S - AL		5.0 (2.40)	AZD-77 EURO S - AL		2.50 (1.14)	12.5 (318)	2.2 (64)	1.25 (32)	4-8 (110-210)
Z-H55GB		9.5 (4.31)	A-H55GB		4.00 (1.81)	7.87 (200)	2.75 (70)	2.00 (50)	9.84 (250)
MD-VETUS 15		2.00 (0.910)	AMD-VETUS 15		1.00 (0.45)	6.00 (150)	2.40 (60)	1.00 (25)	3.10 (80)
MD-VETUS 25		5.10 (2.300)	AMD-VETUS 25		2.50 (1.10)	9.80 (240)	2.40 (60)	1.25 (32)	5.50 (140)
MD-VETUS 35		10.0 (4.500)	AMD-VETUS 35		3.85 (1.75)	13.75 (350)	2-7/8 (73)	1.25 (32)	7.87 (200)

- ZC & AZC Anodes are used for crab traps ~ 7/16" Slot
- Z3B-6 ~ 3/4" Slot
- ZHC-11, ZHC-12, ZHC-15, ZHC-16, ZHC-18 (CL-18) ~ 5/8" Slot

- S Designates Slotted

- AL Designates Aluminum Insert

- GAL Designates Galvanized Insert

- ST Designates Steel Insert

***MD-ZHC-22 & *AMD-ZHC-22**

E-INNER DIA: 3.18 in (80 mm)

Commercial Teardrop Anodes

Used on small vessels and to protect smaller areas and components of large vessels, hulls, rudders, structures, equipment. Steel or aluminum straps available.

COMMERCIAL TEARDROP ANODES (SMALL TO MEDIUM VESSELS, EQUIPMENT)

BOLT ON

TYPE NUMBER	NOM. WEIGHT lbs. (kg)	TYPE NUMBER	NOM. WEIGHT lbs. (kg)	MOUNTING	NOMINAL DIMENSIONS			
					A-LENGTH in (mm)	B-WIDTH in (mm)	C-DEPTH in (mm)	D-C/C in (mm)
Z12	.75 (.35)			1/4"	4.0 (101)	1.25 (31)	.75 (19)	2.00 (51)
Z13	1.5 (.70)	AZ13	.65 (.30)	1/4"	6.0 (152)	1.75 (44)	1.0 (25)	3.25 (83)
Z14	3.25 (1.45)	AZ14	1.35 (.60)	1/4"	8.0 (203)	2.625 (66)	1.5 (38)	4.00 (102)
ZTS SLOTTED	5.0 (2.25)	AZTS SLOTTED	2.1 (.95)	3/8"	9.0 (228)	3.0 (76)	1.375 (34)	10.75 (273)

WELD ON

ZTS	5.0 (2.25)	AZTS	2.1 (.95)		9.0 (228)	3.0 (76)	1.375 (34)
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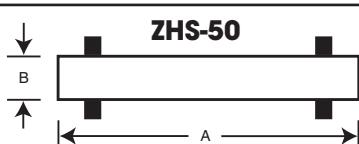
RELIANCE PRODUCTS - 100% MANUFACTURED IN NORTH AMERICA



Commercial
Anodes

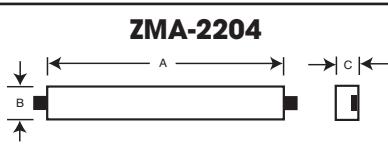


This line provides a full range of types and sizes of hull anodes for small to large commercial vessels and structures.
Available in weld-on and bolt-on styles with either steel or aluminum inserts cast as integral parts of the anodes

BAR ANODES WELD ON**COMMERCIAL HULL ANODES (MEDIUM TO LARGE VESSELS)**

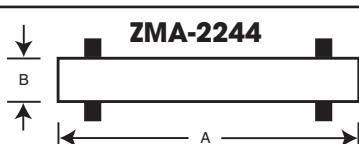
	PART#	A-LENGTH in (mm)	B-WIDTH in (mm)	C-DEPTH in (mm)	D-C/C in (mm)	WEIGHT LBS (KGS)
ZINC	ZHS-50	24.0 (609)	4.0 (101)	2.0 (50)		48.0 (22.7)
ALUM	AZHS-50	24.0 (609)	4.0 (101)	2.0 (50)		21.0 (9.50)

BOLT HOLES CAN BE ADDED ON STRAPS AS REQUIRED



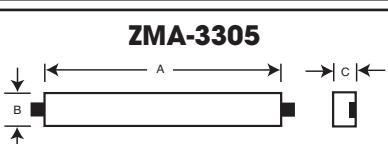
	PART#	A-LENGTH in (mm)	B-WIDTH in (mm)	C-DEPTH in (mm)	D-C/C in (mm)	WEIGHT LBS (KGS)
ZINC	ZMA-2204	20.0 (508)	4.0 (101)	2.0 (50)		37.0 (21.5)
ALUM	AZMA-2204	20.0 (508)	4.0 (101)	2.0 (50)		20.0 (9.10)

BOLT HOLES CAN BE ADDED ON STRAPS AS REQUIRED



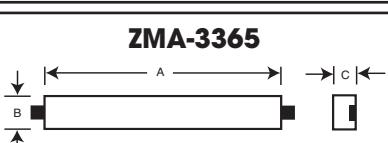
	PART#	A-LENGTH in (mm)	B-WIDTH in (mm)	C-DEPTH in (mm)	D-C/C in (mm)	WEIGHT LBS (KGS)
ZINC	ZMA-2244	24.0 (609)	4.0 (101)	2.0 (50)		48.0 (25.9)
ALUM	AZMA-2244	24.0 (609)	4.0 (101)	2.0 (50)		24.0 (10.9)

BOLT HOLES CAN BE ADDED ON STRAPS AS REQUIRED



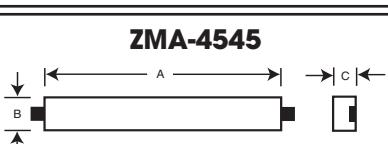
	PART#	A-LENGTH in (mm)	B-WIDTH in (mm)	C-DEPTH in (mm)	D-C/C in (mm)	WEIGHT LBS (KGS)
ZINC	ZMA-3305	30.0 (762)	5.0 (127)	3.0 (76)		71.5 (32.4)
ALUM	AZMA-3305	30.0 (762)	5.0 (127)	3.0 (76)		30.0 (13.6)

BOLT HOLES CAN BE ADDED ON STRAPS AS REQUIRED



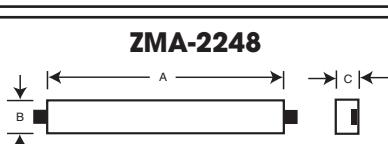
	PART#	A-LENGTH in (mm)	B-WIDTH in (mm)	C-DEPTH in (mm)	D-C/C in (mm)	WEIGHT LBS (KGS)
ZINC	ZMA-3365	36.0 (914)	5.0 (127)	3.0 (76)		88.0 (39.9)
ALUM	AZMA-3365	36.0 (914)	5.0 (127)	3.0 (76)		37.0 (15.0)

BOLT HOLES CAN BE ADDED ON STRAPS AS REQUIRED



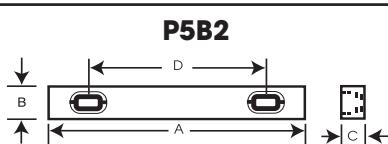
	PART#	A-LENGTH in (mm)	B-WIDTH in (mm)	C-DEPTH in (mm)	D-C/C in (mm)	WEIGHT LBS (KGS)
ZINC	ZMA-4545	54.5 (1384)	4.5 (114)	3.75 (95)		207.0 (93.90)
ALUM	AZMA-4545	54.5 (1384)	4.5 (114)	3.75 (95)		87.0 (39.50)

BOLT HOLES CAN BE ADDED ON STRAPS AS REQUIRED



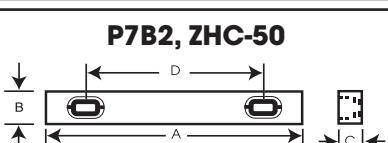
	PART#	A-LENGTH in (mm)	B-WIDTH in (mm)	C-DEPTH in (mm)	D-C/C in (mm)	WEIGHT LBS (KGS)
ZINC	ZMA-2248	48.0 (1220)	5.0 (127)	5.0 (127)		310.0 (140.62)
ALUM	AZMA-2248	48.0 (1220)	5.0 (127)	5.0 (127)		120.0 (54.43)

BOLT HOLES CAN BE ADDED ON STRAPS AS REQUIRED

BAR ANODES BOLT ON

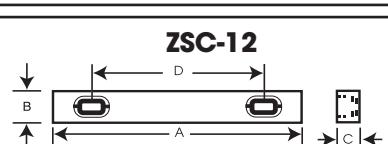
	PART#	A-LENGTH in (mm)	B-WIDTH in (mm)	C-DEPTH in (mm)	D-C/C in (mm)	WEIGHT LBS (KGS)
ZINC	P5B2	24.0 (609)	3.0 (76)	1.25 (31)	12.0 (304)	23.5 (10.6)
ALUM	AP5B2	24.0 (609)	3.0 (76)	1.25 (31)	12.0 (304)	10.0 (4.5)

SLOTS IN ALUMINUM AND STEEL INSERTS, PLEASE SPECIFY WHEN ORDERING



	PART#	A-LENGTH in (mm)	B-WIDTH in (mm)	C-DEPTH in (mm)	D-C/C in (mm)	WEIGHT LBS (KGS)
ZINC	P7B2, ZHC-50	24.0 (609)	4.0 (101)	2.00 (50)	12.0 (304)	44.5 (21.3)
ALUM	AP7B2, AZHC-50	24.0 (609)	4.0 (101)	2.00 (50)	12.0 (304)	19.8 (8.9)

SLOTS IN ALUMINUM AND STEEL INSERTS, PLEASE SPECIFY WHEN ORDERING



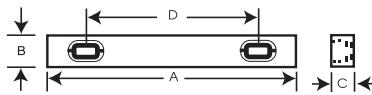
	PART#	A-LENGTH in (mm)	B-WIDTH in (mm)	C-DEPTH in (mm)	D-C/C in (mm)	WEIGHT LBS (KGS)
ZINC	ZSC-12	12.0 (305)	3.0 (76)	1.25 (31)	6.0 (152)	12.0 (5.45)
ALUM	AZSC-12	12.0 (305)	3.0 (76)	1.25 (31)	6.0 (152)	5.0 (2.3)

RELIANCE PRODUCTS - 100% MANUFACTURED IN NORTH AMERICA



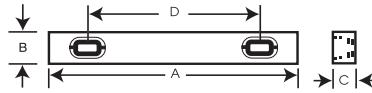
BAR ANODES BOLT ON

ZM-17



	PART#	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
ZINC	ZM-17	in (mm)	in (mm)	in (mm)	in (mm)	LBS (KGS)
ALUM	AZM-17	24 (609)	3 (76)	1.125 (29)	12 (304)	18.0 (8.00)
		24 (609)	3 (76)	1.125 (29)	12 (304)	7.5 (3.4)

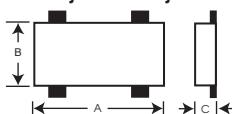
ZM-23



	PART#	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
ZINC	ZM-23	in (mm)	in (mm)	in (mm)	in (mm)	LBS (KGS)
ALUM	AZM-23	24 (609)	3 (76)	1.50 (38)	12 (304)	28.0 (12.7)
		24 (609)	3 (76)	1.50 (38)	12 (304)	12.0 (5.44)

PLATE ANODES WELD ON

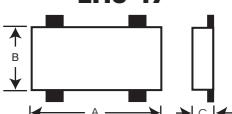
Z2, ZHS-23, ZHS-10, ZMA-1126



	PART#	A-LENGTH	B-WIDTH	C-DEPTH	WEIGHT
ZINC	Z2, ZHS-23, ZHS-10, ZMA-1126	12.0 (304)	6.0 (152)	1.25 (31)	23.0 (10.6)
ALUM	AZ2, AZHS23, AZHS-10, AZMA-1126	12.0 (304)	6.0 (152)	1.25 (31)	10.0 (4.5)

BOLT HOLES CAN BE ADDED ON STRAPS AS REQUIRED

ZHS-47

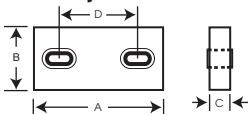


	PART#	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
ZINC	ZHS-47	12.0 (304)	6.0 (152)	2.5 (64)		45.0 (20.46)
ALUM	AZHS-47	12.0 (304)	6.0 (152)	2.5 (64)		19.8 (9.0)

BOLT HOLES CAN BE ADDED ON STRAPS AS REQUIRED

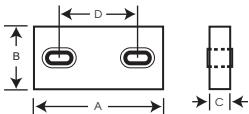
PLATE ANODES BOLT ON

Z-1, ZHC-23



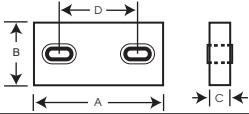
	PART#	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
ZINC	Z-1, ZHC-23	12.0 (304)	6.0 (152)	1.25 (31)	6.0 (152)	23.0 (10.4)
ALUM	AZ-1, AZHC-23	12.0 (304)	6.0 (152)	1.25 (31)	6.0 (152)	9.7 (4.4)

ZHC-25



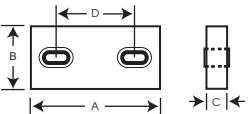
	PART#	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
ZINC	ZHC-25	12.0 (304)	6.0 (152)	1.5 (38)	6.5 (165)	25.0 (11.3)
ALUM	AZHC-25	12.0 (304)	6.0 (152)	1.5 (38)	6.5 (165)	11.0 (5.0)

ZHC-47



	PART#	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
ZINC	ZHC-47	12.0 (304)	6.0 (152)	2.5 (64)	6.0 (152)	44.0 (21.3)
ALUM	AZHC-47	12.0 (304)	6.0 (152)	2.5 (64)	6.0 (152)	19.8 (9.0)

H20B



	PART#	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
ZINC	H20B	12.0 (304)	6.0 (152)	1.3 (48)	6.0 (152)	18.9 (8.5)
ALUM	AH20B	12.0 (304)	6.0 (152)	1.3 (48)	6.0 (152)	8.0 (3.6)

RELIANCE PRODUCTS - 100% MANUFACTURED IN NORTH AMERICA

reliance

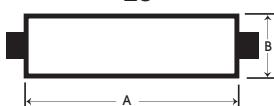
Commercial
Anodes



Small, medium and large vessels. Hulls, sea tanks, bilges, ballast tanks, structures. Steel or aluminum straps available.

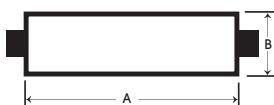
COMMERCIAL SEMI-STREAMLINED ANODES

WELD ON

Z3

	PART#	A-LENGTH in (mm)	B-WIDTH in (mm)	C-DEPTH in (mm)	D-C/C in (mm)	WEIGHT LBS (KGS)
ZINC	Z3 OR ZSS	12.0 (304)	3.0 (76)	1.25 (31)		10.0 (4.50)
ALUM	AZ3 OR AZSS	12.0 (304)	3.0 (76)	1.25 (31)		5.0 (2.25)

BOLT HOLES CAN BE ADDED ON STRAPS AS REQUIRED

Z4

	PART#	A-LENGTH in (mm)	B-WIDTH in (mm)	C-DEPTH in (mm)	D-C/C in (mm)	WEIGHT LBS (KGS)
ZINC	Z4	6.0 (152)	3.5 (88)	1.0 (25)		5.0 (2.25)
ALUM	AZ4	6.0 (152)	3.5 (88)	1.0 (25)		2.1 (.95)

BOLT HOLES CAN BE ADDED ON STRAPS AS REQUIRED

Z6

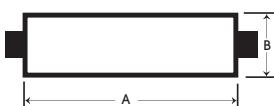
	PART#	A-LENGTH in (mm)	B-WIDTH in (mm)	C-DEPTH in (mm)	D-C/C in (mm)	WEIGHT LBS (KGS)
ZINC	Z6	5.0 (127)	2.5 (63)	1.0 (25)		3.0 (1.35)
ALUM	AZ6	5.0 (127)	2.5 (63)	1.0 (25)		1.3 (.60)

BOLT HOLES CAN BE ADDED ON STRAPS AS REQUIRED

Z19

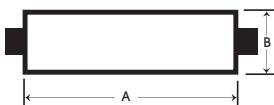
	PART#	A-LENGTH in (mm)	B-WIDTH in (mm)	C-DEPTH in (mm)	D-C/C in (mm)	WEIGHT LBS (KGS)
ZINC	Z19	25.0 (635)	3.125 (79)	1.25 (31)		23.0 (10.40)
ALUM	AZ19	25.0 (635)	3.125 (79)	1.25 (31)		10.0 (4.55)

BOLT HOLES CAN BE ADDED ON STRAPS AS REQUIRED

Z-220

	PART#	A-LENGTH in (mm)	B-WIDTH in (mm)	C-DEPTH in (mm)	D-C/C in (mm)	WEIGHT LBS (KGS)
ZINC	Z-220	27.0 (685)	5.0 (127)	1.75 (44)		62.0 (28.12)
ALUM	AZ-220	27.0 (685)	5.0 (127)	1.75 (44)		26.0 (11.79)

BOLT HOLES CAN BE ADDED ON STRAPS AS REQUIRED

ZC-5

	PART#	A-LENGTH in (mm)	B-WIDTH in (mm)	C-DEPTH in (mm)	D-C/C in (mm)	WEIGHT LBS (KGS)
ZINC	ZC-5	9.0 (228)	2.25 (57)	1.25 (31)		5.0 (2.25)
ALUM	AZC-5	9.0 (228)	2.25 (57)	1.25 (31)		2.1 (.95)

THESE ANODES ARE USED FOR CRAB TRAPS - 7/16" SLOT

ZC-7

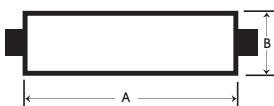
	PART#	A-LENGTH in (mm)	B-WIDTH in (mm)	C-DEPTH in (mm)	D-C/C in (mm)	WEIGHT LBS (KGS)
ZINC	ZC-7	9.0 (228)	2.25 (57)	1.625 (41)		7.0 (3.15)
ALUM	AZC-7	9.0 (228)	2.25 (57)	1.625 (41)		3.0 (1.35)

THESE ANODES ARE USED FOR CRAB TRAPS - 7/16" SLOT

MD-661

	PART#	A-LENGTH in (mm)	B-WIDTH in (mm)	C-DEPTH in (mm)	D-C/C in (mm)	WEIGHT LBS (KGS)
ZINC	ZMD-661	6.0 (152)	6.0 (152)	1.0 (25)		9.0 (4.0)
ALUM	AMD-661	6.0 (152)	6.0 (152)	1.0 (25)		3.86 (1.75)

BOLT HOLES CAN BE ADDED ON STRAPS AS REQUIRED

MDZ-519

	PART#	A-LENGTH in (mm)	B-WIDTH in (mm)	C-DEPTH in (mm)	D-C/C in (mm)	WEIGHT LBS (KGS)
ZINC	MDZ-519	19.0 (481)	5.0 (127)	1.75 (44)		35.0 (15.88)
ALUM	AMDZ-519	19.0 (481)	5.0 (127)	1.75 (44)		13.46 (6.11)

BOLT HOLES CAN BE ADDED ON STRAPS AS REQUIRED

RELIANCE PRODUCTS - 100% MANUFACTURED IN NORTH AMERICA



ZINC FOR SALT WATER

ALUMINUM FOR SALT AND BRACKISH WATER

Semi-Streamlined Anodes

Small, medium and large vessels. Hulls, sea tanks, bilges, ballast tanks, structures. Steel or aluminum straps available.

BOLT ON**COMMERCIAL SEMI-STREAMLINED ANODES**

Z3BS	A-LENGTH in (mm)	B-WIDTH in (mm)	C-DEPTH in (mm)	D-C/C in (mm)	WEIGHT LBS (KGS)	
ZINC Z3BS	12.0 (305)	3.0 (76)	1-1/2 (38)	6-8 (152-203)	8.5 (3.85)	
ALUM AZ3BS	12.0 (305)	3.0 (76)	1-1/2 (38)	6-8 (152-203)	4.0 (1.68)	
SLOTTED WITH ALUMINUM INSERT - 3/4" SLOT						
MD-Z-03B	A-LENGTH in (mm)	B-WIDTH in (mm)	C-DEPTH in (mm)	D-C/C in (mm)	WEIGHT LBS (KGS)	
ZINC Z-MD-Z-03B	12.0 (305)	3.0 (76)	1-1/2 (38)	8-9 (203-228)	13.70 (6.227)	
ALUM AZ-MD-Z-03B	12.0 (305)	3.0 (76)	1-1/2 (38)	8-9 (203-228)	5.2 (2.364)	
SLOTTED WITH ALUMINUM INSERT						
MDZ-24B	A-LENGTH in (mm)	B-WIDTH in (mm)	C-DEPTH in (mm)	D-C/C in (mm)	WEIGHT LBS (KGS)	
ZINC MDZ-24B	14.0 (356)	6.5 (165)	1.5 (38)	5.0 (127)	20.0 (9.07)	
ALUM AMDZ-24B	14.0 (356)	6.5 (165)	1.5 (38)	5.0 (127)	9.0 (4.018)	
SLOTTED WITH ALUMINUM INSERT						
ZHC-11	A-LENGTH in (mm)	B-WIDTH in (mm)	C-DEPTH in (mm)	D-C/C in (mm)	WEIGHT LBS (KGS)	
ZINC ZHC-11	12.0 (305)	3.0 (76)	1-1/2 (38)	8-9 (203-208)	11.0 (5.00)	
ALUM AZHC-11	12.0 (305)	3.0 (76)	1-1/2 (38)	8-9 (203-208)	4.8 (2.20)	
SLOTTED GALVANIZED INSERT - 5/8" SLOT						
ZHC-12	A-LENGTH in (mm)	B-WIDTH in (mm)	C-DEPTH in (mm)	D-C/C in (mm)	WEIGHT LBS (KGS)	
ZINC ZHC-12	12.0 (305)	3.0 (76)	1-1/2 (38)	6-0 (152)	10.0 (4.50)	
ALUM AZHC-12	12.0 (305)	3.0 (76)	1-1/2 (38)	6-0 (152)	5.0 (2.25)	
SLOTTED WITH ALUMINUM INSERT - 5/8" SLOT						
ZHC-15	A-LENGTH in (mm)	B-WIDTH in (mm)	C-DEPTH in (mm)	D-C/C in (mm)	WEIGHT LBS (KGS)	
ZINC ZHC-15	16.0 (400)	3.0 (76)	1-3/4 (44)	9 (229)	16.0 (7.27)	
ALUM AZHC-15	16.0 (400)	3.0 (76)	1-3/4 (44)	9 (229)	6.5 (2.95)	
SLOTTED GALVANIZED INSERT - 5/8" SLOT						
ZHC-15 HEAVY	A-LENGTH in (mm)	B-WIDTH in (mm)	C-DEPTH in (mm)	D-C/C in (mm)	WEIGHT LBS (KGS)	
ZINC ZHC-15 HEAVY	18.0 (456)	4.0 (102)	1.75 (44)	9 (229)	18.0 (8.16)	
ALUM AZHC-15 HEAVY	18.0 (456)	4.0 (102)	1.75 (44)	9 (229)	8.65 (3.92)	
SLOTTED GALVANIZED INSERT - 5/8" SLOT						
ZHC-16	A-LENGTH in (mm)	B-WIDTH in (mm)	C-DEPTH in (mm)	D-C/C in (mm)	WEIGHT LBS (KGS)	
ZINC ZHC-16	16.0 (400)	3.5 (88)	1-3/4 (44)	9 (229)	16.0 (7.27)	
ALUM AZHC-16	16.0 (400)	3.5 (88)	1-3/4 (44)	9 (229)	7.0 (3.16)	
SLOTTED GALVANIZED INSERT - 5/8" SLOT						
ZHC-18 (CL-18)	A-LENGTH in (mm)	B-WIDTH in (mm)	C-DEPTH in (mm)	D-C/C in (mm)	WEIGHT LBS (KGS)	
ZINC ZHC-18(CL-18)	16.0 (400)	3.5 (88)	2.00 (50)	9 (229)	18.0 (8.18)	
ALUM AZHC-18(CL-18)	16.0 (400)	3.5 (88)	2.00 (50)	9 (229)	7.8 (3.60)	
SLOTTED GALVANIZED INSERT - 5/8" SLOT						
DIVERS SUPER HEAVY	A-LENGTH in (mm)	B-WIDTH in (mm)	C-DEPTH in (mm)	D-C/C in (mm)	WEIGHT LBS (KGS)	
ZINC DIVERS SUPER HEAVY	14.0 (356)	6.5 (165)	1.25 (32)	5.5 (140)	20.0 (9.07)	
ALUM ADIVERS SUPER HEAVY	14.0 (356)	6.5 (165)	1.25 (32)	5.5 (140)	8.33 (3.78)	
SLOTTED WITH ALUMINUM INSERT						
MD-ZHC-22	A-LENGTH in (mm)	B-WIDTH in (mm)	C-DEPTH in (mm)	D-C/C in (mm)	E-INNER DIA in (mm)	WEIGHT LBS (KGS)
ZINC MD-ZHC-22	17.0 (425)	3.75 (94)	2.00 (50)	8.0 (203)	3.18 (80)	21.0 (9.53)
ALUM AMD-ZHC-22	17.0 (425)	3.75 (94)	2.00 (50)	8.0 (203)	3.18 (80)	7.78 (3.53)
SLOTTED WITH ALUMINUM INSERT						

RELIANCE PRODUCTS - 100% MANUFACTURED

IN NORTH AMERICA

relianceCommercial
Anodes

ZD-72BM		<table border="1"> <thead> <tr> <th>PART#</th><th>A-LENGTH</th><th>B-WIDTH</th><th>C-DEPTH</th><th>D-C/C</th><th>WEIGHT</th></tr> </thead> <tbody> <tr> <td>ZINC</td><td>18.0 (456)</td><td>4.0 (101)</td><td>1.50 (38)</td><td>8-9 (240)</td><td>17.0 (7.71)</td></tr> <tr> <td>ALUM</td><td>18.0 (456)</td><td>4.0 (101)</td><td>1.50 (38)</td><td>8-9 (240)</td><td>6.5 (2.95)</td></tr> </tbody> </table>	PART#	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT	ZINC	18.0 (456)	4.0 (101)	1.50 (38)	8-9 (240)	17.0 (7.71)	ALUM	18.0 (456)	4.0 (101)	1.50 (38)	8-9 (240)	6.5 (2.95)
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ZINC	18.0 (456)	4.0 (101)	1.50 (38)	8-9 (240)	17.0 (7.71)															
ALUM	18.0 (456)	4.0 (101)	1.50 (38)	8-9 (240)	6.5 (2.95)															
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PART#	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT															
ZINC	18.0 (456)	4.0 (101)	1.50 (38)	8-9 (240)	17.0 (7.71)															
ALUM	18.0 (456)	4.0 (101)	1.50 (38)	8-9 (240)	6.5 (2.95)															
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Z-15B		<table border="1"> <thead> <tr> <th>PART#</th><th>A-LENGTH</th><th>B-WIDTH</th><th>C-DEPTH</th><th>D-C/C</th><th>WEIGHT</th></tr> </thead> <tbody> <tr> <td>ZINC</td><td>18.0 (456)</td><td>3.0 (76)</td><td>1.50 (38)</td><td>8.87 (229)</td><td>15.0 (6.90)</td></tr> <tr> <td>ALUM</td><td>18.0 (456)</td><td>3.0 (76)</td><td>1.50 (38)</td><td>8.87 (229)</td><td>6.33 (2.88)</td></tr> </tbody> </table>	PART#	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT	ZINC	18.0 (456)	3.0 (76)	1.50 (38)	8.87 (229)	15.0 (6.90)	ALUM	18.0 (456)	3.0 (76)	1.50 (38)	8.87 (229)	6.33 (2.88)
PART#	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT															
ZINC	18.0 (456)	3.0 (76)	1.50 (38)	8.87 (229)	15.0 (6.90)															
ALUM	18.0 (456)	3.0 (76)	1.50 (38)	8.87 (229)	6.33 (2.88)															
SLOTTED WITH GALVANIZED STEEL INSERT																				
MD-VETUS 35		<table border="1"> <thead> <tr> <th>PART#</th><th>A-LENGTH</th><th>B-WIDTH</th><th>C-DEPTH</th><th>D-C/C</th><th>WEIGHT</th></tr> </thead> <tbody> <tr> <td>ZINC</td><td>13-3/4 (350)</td><td>2-7/8 (75)</td><td>1-1/4 (35)</td><td>7-7/8 (200)</td><td>10.0 (4.5)</td></tr> <tr> <td>ALUM</td><td>13-3/4 (350)</td><td>2-7/8 (75)</td><td>1-1/4 (35)</td><td>7-7/8 (200)</td><td>3.85 (1.75)</td></tr> </tbody> </table>	PART#	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT	ZINC	13-3/4 (350)	2-7/8 (75)	1-1/4 (35)	7-7/8 (200)	10.0 (4.5)	ALUM	13-3/4 (350)	2-7/8 (75)	1-1/4 (35)	7-7/8 (200)	3.85 (1.75)
PART#	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT															
ZINC	13-3/4 (350)	2-7/8 (75)	1-1/4 (35)	7-7/8 (200)	10.0 (4.5)															
ALUM	13-3/4 (350)	2-7/8 (75)	1-1/4 (35)	7-7/8 (200)	3.85 (1.75)															
MD-ZD-76 MINI EURO		<table border="1"> <thead> <tr> <th>PART#</th><th>A-LENGTH</th><th>B-WIDTH</th><th>C-DEPTH</th><th>D-C/C</th><th>WEIGHT</th></tr> </thead> <tbody> <tr> <td>ZINC</td><td>8-0 (200)</td><td>2-1/2 (65)</td><td>1-1/4 (32)</td><td>4-1/4 (110)</td><td>3.00 (1.318)</td></tr> <tr> <td>ALUM</td><td>8-0 (200)</td><td>2-1/2 (65)</td><td>1-1/4 (32)</td><td>4-1/4 (110)</td><td>1.45 (0.659)</td></tr> </tbody> </table>	PART#	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT	ZINC	8-0 (200)	2-1/2 (65)	1-1/4 (32)	4-1/4 (110)	3.00 (1.318)	ALUM	8-0 (200)	2-1/2 (65)	1-1/4 (32)	4-1/4 (110)	1.45 (0.659)
PART#	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT															
ZINC	8-0 (200)	2-1/2 (65)	1-1/4 (32)	4-1/4 (110)	3.00 (1.318)															
ALUM	8-0 (200)	2-1/2 (65)	1-1/4 (32)	4-1/4 (110)	1.45 (0.659)															
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PART#	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT															
ZINC	12.5 (318)	2.2 (64)	1-1/4 (32)	4-8 (110-210)	5.00 (2.40)															
ALUM	12.5 (318)	2.2 (64)	1-1/4 (32)	4-8 (110-210)	2.50 (1.14)															
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PART#	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT															
ZINC	7.87 (200)	2.75 (70)	2.00 (50)	9.84 (250)	9.5 (4.31)															
ALUM	7.87 (200)	2.75 (70)	2.00 (50)	9.84 (250)	4.00 (1.81)															
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VETUS HULL ANODES BOLT ON

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PART#	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT															
ZINC	1-3/4 (45)	1-3/4 (45)	--	--	2.20 (1.00)															
ALUM	1-3/4 (45)	1-3/4 (45)	--	--	1.00 (0.450)															
M-D VETUS 15																				
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PART#	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT															
ZINC	6 (150)	2-1/2 (60)	1-0 (25)	3-1/8 (80)	2.00 (0.910)															
ALUM	6 (150)	2-1/2 (60)	1-0 (25)	3-1/8 (80)	1.00 (0.450)															
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PART#	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT															
ZINC	9-1/2 (240)	2.40 (60)	1-1/4 (32)	5-1/2 (140)	5.10 (2.300)															
ALUM	9-1/2 (240)	2.40 (60)	1-1/4 (32)	5-1/2 (140)	2.50 (1.100)															
M-D VETUS 35																				
MD-VETUS 35		<table border="1"> <thead> <tr> <th>PART#</th><th>A-LENGTH</th><th>B-WIDTH</th><th>C-DEPTH</th><th>D-C/C</th><th>WEIGHT</th></tr> </thead> <tbody> <tr> <td>ZINC</td><td>13-3/4 (350)</td><td>2-7/8 (75)</td><td>1-1/4 (35)</td><td>7-7/8 (200)</td><td>10.0 (4.5)</td></tr> <tr> <td>ALUM</td><td>13-3/4 (350)</td><td>2-7/8 (75)</td><td>1-1/4 (35)</td><td>7-7/8 (200)</td><td>3.85 (1.75)</td></tr> </tbody> </table>	PART#	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT	ZINC	13-3/4 (350)	2-7/8 (75)	1-1/4 (35)	7-7/8 (200)	10.0 (4.5)	ALUM	13-3/4 (350)	2-7/8 (75)	1-1/4 (35)	7-7/8 (200)	3.85 (1.75)
PART#	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT															
ZINC	13-3/4 (350)	2-7/8 (75)	1-1/4 (35)	7-7/8 (200)	10.0 (4.5)															
ALUM	13-3/4 (350)	2-7/8 (75)	1-1/4 (35)	7-7/8 (200)	3.85 (1.75)															

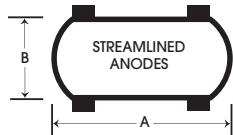
RELIANCE PRODUCTS - 100% MANUFACTURED IN NORTH AMERICA



WELD ON

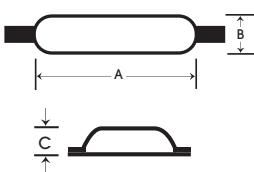
COMMERCIAL STEAMLINE ANODES

Z22



		A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
	PART#	in (mm)	in (mm)	in (mm)	in (mm)	LBS (KGS)
ZINC	Z-22	14.0 (356)	6.50 (165)	1-1/2 (38)		23.0 (10.45)
ALUM	AZ-22	14.0 (356)	6.50 (165)	1-1/2 (38)		10.0 (4.550)

Z-26 / ZHS-26



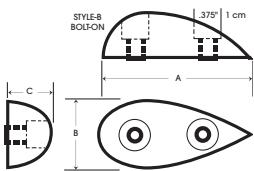
		A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
	PART#	in (mm)	in (mm)	in (mm)	in (mm)	LBS (KGS)
ZINC	Z-26 / ZHS-26	13.25 (336)	4.25 (108)	2-1/4 (57)		25.0 (11.36)
ALUM	AZ-26 / AZHS-26	13.25 (336)	4.25 (108)	2-1/4 (57)		12.0 (5.45)

Commercial Teardrop Anodes

BOLT ON

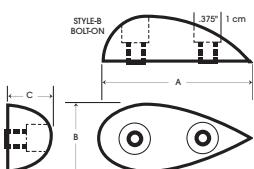
COMMERCIAL TEARDROP ANODES

Z-12



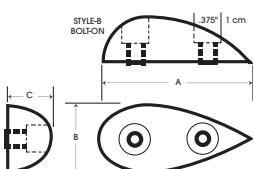
	MOUNTING	A - LGTH	B - WIDTH	C - DEPTH	D - C/C	WEIGHT
	PART#	in (mm)	in (mm)	in (mm)	in (mm)	LBS (KGS)
ZINC	Z-12	1/4 (6)	4.0 (101)	1.25 (31)	0.75 (19)	2.00 (51)
ALUM	AZ-12	1/4 (6)	4.0 (101)	1.25 (31)	0.75 (19)	2.00 (51)

Z-13



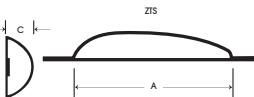
	MOUNTING	A - LGTH	B - WIDTH	C - DEPTH	D - C/C	WEIGHT
	PART#	in (mm)	in (mm)	in (mm)	in (mm)	LBS (KGS)
ZINC	Z-13	1/4 (6)	6.0 (152)	1.75 (44)	1.00 (25)	3.25 (83)
ALUM	AZ-13	1/4 (6)	6.0 (152)	1.75 (44)	1.00 (25)	3.25 (83)

Z-14



	MOUNTING	A - LGTH	B - WIDTH	C - DEPTH	D - C/C	WEIGHT
	PART#	in (mm)	in (mm)	in (mm)	in (mm)	LBS (KGS)
ZINC	Z-14	1/4 (6)	8.0 (203)	2.625 (66)	1.5 (38)	4.0 (102)
ALUM	AZ-14	1/4 (6)	8.0 (203)	2.625 (66)	1.5 (38)	4.0 (102)

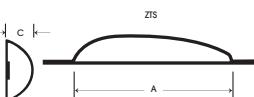
ZTS SLOTTED



	MOUNTING	A - LGTH	B - WIDTH	C - DEPTH	D - C/C	WEIGHT
	PART#	in (mm)	in (mm)	in (mm)	in (mm)	LBS (KGS)
ZINC	ZTS SLOTTED	1/4 (6)	9.0 (228)	3.0 (76)	1.375 (34)	10.75 (273)
ALUM	AZTS SLOTTED	1/4 (6)	9.0 (228)	3.0 (76)	1.375 (34)	10.75 (273)

WELD ON

ZTS



		A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
	PART#	in (mm)	in (mm)	in (mm)	in (mm)	LBS (KGS)
ZINC	ZTS	9.0 (228)	3.0 (76)	1.375 (34)		5.0 (2.25)
ALUM	AZTS	9.0 (228)	3.0 (76)	1.375 (34)		2.1 (0.95)

RELIANCE PRODUCTS 100%
MANUFACTURED IN NORTH AMERICA

reliance

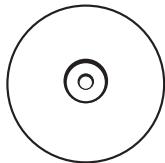
Commercial
Anodes



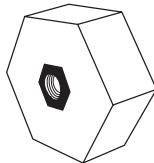
CRAB TRAP ANODES

BOLT ON

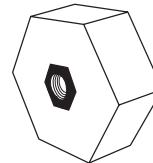
ZINC ANODES		ALUMINUM ANODES		DIA. in (mm)	WIDTH in (mm)	BOLT DIA. in (mm)
TYPE NUMBER	NOM. WEIGHT lbs. (kg)	TYPE NUMBER	NOM. WEIGHT lbs. (kg)			
MDCT-3	3.00 (1.35)	AMDCT-3	1.30 (0.600)	3-1/4 (83)	1-1/4 (32)	1/2 (13)
MDCT-3 HEX	3.00 (1.35)	AMDCT-3 HEX	1.30 (0.600)	3 (76)	1-3/8 (35)	1/2 (13)
MDCT-5 HEX	5.00 (2.27)	AMDCT-5 HEX	2.53 (1.136)	3-3/4 (95)	1-1/4 (32)	1/2 (13)



MDCT-3



MDCT-3 HEX

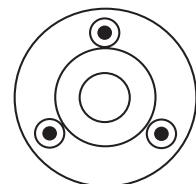


MDCT-5 HEX

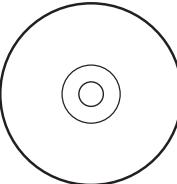
COMMERCIAL BOLT-ON (PIE ANODES)

BOLT ON

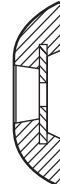
ZINC ANODES		ALUMINUM ANODES		DIA. in (mm)	WIDTH in (mm)	BOLT DIA. in (mm)
TYPE NUMBER	NOM. WEIGHT lbs. (kg)	TYPE NUMBER	NOM. WEIGHT lbs. (kg)			
Z-7	12.5 (6.000)	AZ-7	5.5 (2.500)	8 1/2" (216)		7/16" (17)
ZD-56	2.50 (1.136)	AZD-56	0.80 (0.364)	4" (101)		7/16" (17)
ZD-58	4.40 (2.000)	AZD-58	1.31 (0.595)	5.9" (132)		7/16" (17)



Z-7



ZD-56 / ZD-58



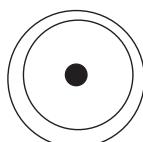
PLEASURE CRAFT ANODES FOR HAMILTON JET

ZINC ANODES			ALUMINUM ANODES		
TYPE NUMBER	NOM. WEIGHT lbs.	(kg)	TYPE NUMBER	NOM. WEIGHT lbs.	(kg)
HJ-102185	2.08	0.945	AHJ-102185	0.81	0.368
HJ-105447	0.45	0.205	AHJ-105447	0.18	0.082
HJ-104634	0.62	0.282	AHJ-104634	0.24	0.109
HJ-111593	0.56	0.255	AHJ-111593	-	0.000
HJ-112657	0.33	0.150	AHJ-112657	-	0.000
HJ-103359	0.57	0.259	AHJ-103359	-	0.000
HJ-111059	2.09	0.950	AHJ-111059	0.22	0.100
HJ-111644	0.87	0.395	AHJ-111644	-	0.000
HJ-108582	0.07	0.032	AHJ-108582	0.03	0.014
HJ-107890	3.80	1.720	AHJ-107890	1.52	0.690
103862-14	14.0	6.350	A103862-14	5.45	2.470



103862-14

The DD6X6, DD6X6 Heavy,
DD6X6 X-Heavy & 103862-15
are a popular low cost alternative
to the HJ-103862



HJ102185



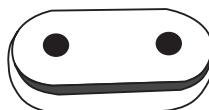
HJ105447



HJ112657



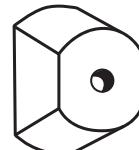
HJ104634, HJ103359



HJ111059



HJ108582

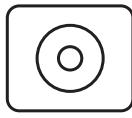


HJ107890

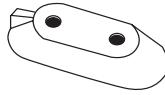
HJ111593 • M8 x 1.25
HJ111644 • M8 x 1.25

PLEASURE CRAFT ANODES FOR HONDA

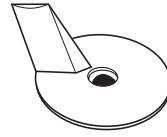
ZINC ANODES			ALUMINUM ANODES			CROSS REFERENCE / SAME AS
TYPE NUMBER	NOM. WEIGHT lbs.	(kg)	TYPE NUMBER	NOM. WEIGHT lbs.	(kg)	
41106-935-812	0.20	0.091	A41106-935-812	0.08	0.036	6E0-45251-11
41106-ZW9-000	0.10	0.050	A41106-ZW9-000	0.05	0.020	
41107-ZV5-000	0.48	0.218	A41107-ZV5-000	0.19	0.086	664-45371-01
41109-ZW1-003	0.54	0.245	A41109-ZW1-003	0.21	0.095	826134
41109-ZW1-B00	0.49	0.223	A41109-ZW1-B00	0.19	0.086	
06411-ZV5-000	0.79	0.359	A06411-ZV5-000	0.30	0.136	
06411-ZW1-000	1.83	0.832	A06411-ZW1-000	0.70	0.318	31640
41107-ZW1-003-ZA	1.05	0.477	A41107-ZW1-003-ZA	0.41	0.186	688-45251-01
12155-ZV4-A00	0.06	0.027	A12155-ZV4-A00	0.02	0.009	
12155-ZV5-000	0.06	0.027	A12155-ZV5-000	-	-	



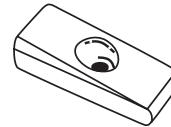
41106-ZW9-000



41106-935-812



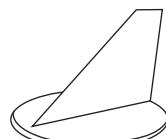
41107-ZV5-000



41109-ZW1-003



12155-ZV5-000



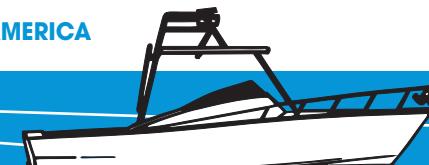
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06411-ZV5-000



06411-ZW1-000

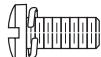


Reliance Shaft Anodes mount to the shaft with two stainless steel hardware options to choose from.

Allen head with lock washer
& bolt retaining washer



OR Slotted head with lock washer
& bolt retaining washer



STREAMLINED SHAFT ANODES - MDX SERIES

ZINC ANODES		ALUMINUM ANODES		NOMINAL DIMENSIONS			
TYPE NUMBER	NOM. WEIGHT lbs. (kgs.)	TYPE NUMBER	NOM. WEIGHT lbs. (kgs.)	A-SHAFT		B-DIAMETER	C-LENGTH
				in (mm)	in (mm)	in (mm)	in (mm)
MDX-1	1.13 (0.514)	AMDX-1	0.44 (0.200)	3/4 (19)	2-1/8 (54)	2-1/8 (54)	
MDX-2	1.03 (0.468)	AMDX-2	0.40 (0.182)	7/8 (22)	2-1/8 (54)	2-1/8 (54)	
MDX-3	0.98 (0.445)	AMDX-3	0.38 (0.173)	1-0 (25)	2-1/8 (54)	2-1/8 (54)	
MDX-4	0.86 (0.391)	AMDX-4	0.34 (0.155)	1-1/8 (29)	2-1/8 (54)	2-1/8 (54)	
MDX-5	1.17 (0.532)	AMDX-5	0.46 (0.209)	1-1/4 (32)	2-3/8 (60)	2-1/2 (64)	
MDX-6	2.40 (1.090)	AMDX-6	0.98 (0.440)	1-3/8 (35)	2-3/4 (70)	2-1/2 (64)	
MDX-7	2.20 (1.000)	AMDX-7	0.89 (0.400)	1-1/2 (38)	2-3/4 (70)	2-5/8 (68)	
MDX-8	2.53 (1.150)	AMDX-8	0.99 (0.450)	1-3/4 (44)	3-1/4 (83)	2-7/8 (73)	
MDX-8A	2.01 (0.914)	AMDX-8A	0.79 (0.359)	1-7/8 (47)	3-1/4 (83)	2-7/8 (73)	
MDX-9	2.01 (0.914)	AMDX-9	0.79 (0.359)	2-0 (51)	3-1/4 (83)	2-7/8 (73)	
MDX-9A	6.48 (2.945)	AMDX-9A	-	2-1/8 (54)	4-1/4 (105)	3-3/4 (95)	
MDX-10	9.40 (4.260)	AMDX-10	3.48 (1.580)	2-1/4 (57)	4-3/4 (121)	4 (98)	
MDX-10A	5.58 (2.536)	AMDX-10A	2.18 (0.991)	2-3/8 (60)	4-1/4 (105)	3-3/4 (95)	
MDX-11	5.13 (2.332)	AMDX-11	2.00 (0.909)	2-1/2 (64)	4-1/4 (105)	3-3/4 (95)	
MDX-12	6.92 (3.145)	AMDX-12	2.70 (1.227)	2-3/4 (70)	4-3/4 (121)	3-5/8 (92)	
MDX-13	5.94 (2.700)	AMDX-13	2.32 (1.055)	3-0 (76)	4-3/4 (121)	3-5/8 (92)	
MDX-14	11.10 (5.045)	AMDX-14	4.33 (1.968)	3-1/4 (83)	5-7/8 (149)	3-7/8 (98)	
MDX-15	9.80 (4.455)	AMDX-15	3.83 (1.741)	3-1/2 (89)	5-7/8 (149)	3-7/8 (98)	
MDX-16	8.50 (3.860)	AMDX-16	3.15 (1.430)	3-3/4 (95)	5-7/8 (149)	3-7/8 (98)	
MDX-17	14.40 (6.530)	AMDX-17	5.54 (2.510)	4-0 (102)	5-7/8 (149)	3-3/4 (95)	
MDX-18	11.5 (5.220)	AMDX-18	4.60 (2.09)	4-1/2 (115)	6-3/4 (171)	3-3/4 (95)	
MDX-20	13.00 (5.900)	AMDX-20	-	5-1/2 (140)	7-1/2 (190)	3-3/4 (95)	

STREAMLINED SHAFT ANODES - MDX HEAVY SERIES

ZINC ANODES		ALUMINUM ANODES		NOMINAL DIMENSIONS			
TYPE NUMBER	NOM. WEIGHT lbs. (kgs.)	TYPE NUMBER	NOM. WEIGHT lbs. (kgs.)	A-SHAFT		B-DIAMETER	C-LENGTH
				in (mm)	in (mm)	in (mm)	in (mm)
MDX-0 - HEAVY	1.26 (0.573)	AMDX-0 - HEAVY	0.49 (0.223)	1/2 (13)	2-1/8 (54)	2-1/8 (54)	
MDX-4 - HEAVY	1.60 (0.730)	AMDX-4 - HEAVY	0.95 (0.430)	1-1/8 (29)	2-3/8 (60)	2-1/2 (64)	
MDX-5 - HEAVY	2.00 (0.907)	AMDX-5 - HEAVY	0.65 (0.295)	1-1/4 (32)	2-3/4 (70)	2-1/2 (64)	
MDX-6 - HEAVY	3.31 (1.500)	AMDX-6 - HEAVY	1.27 (0.580)	1-3/8 (35)	3-1/4 (83)	2-7/8 (73)	
MDX-7 - HEAVY	3.00 (1.360)	AMDX-7 - HEAVY	1.15 (0.520)	1-1/2 (38)	3-1/4 (83)	2-7/8 (73)	
MDX-8 - HEAVY	4.05 (1.841)	AMDX-8 - HEAVY	1.58 (0.718)	1-3/4 (44)	3-9/16 (90)	3-3/8 (86)	
MDX-9 - HEAVY	3.50 (1.590)	AMDX-9 - HEAVY	1.33 (0.605)	2-0 (51)	3-9/16 (90)	3-3/8 (86)	
MDX-10 - HEAVY	9.40 (4.260)	AMDX-10 - HEAVY	3.48 (1.580)	2-1/4 (57)	4-3/4 (121)	4 (98)	
MDX-11 - HEAVY	7.60 (3.450)	AMDX-11 - HEAVY	2.50 (1.136)	2-1/2 (64)	4-1/2 (110)	4 (98)	
MDX-12 - HEAVY	13.0 (5.900)	AMDX-12 - HEAVY	5.00 (2.270)	2-3/4 (70)	4-3/4 (121)	3-5/8 (92)	
MDX-13 - HEAVY	9.20 (4.170)	AMDX-13 - HEAVY	3.40 (1.540)	3-0 (76)	5 (127)	4 (98)	
MDX-14 - HEAVY	18.0 (8.160)	AMDX-14 - HEAVY	8.00 (3.36)	3-1/4 (83)	6-3/4 (171)	3-3/4 (95)	
MDX-15 - HEAVY	17.0 (7.710)	AMDX-15 - HEAVY	7.00 (3.18)	3-1/2 (89)	6-3/4 (171)	3-3/4 (95)	
MDX-17 - HEAVY	14.4 (6.530)	AMDX-17 - HEAVY	5.54 (2.51)	4-0 (102)	6-3/4 (171)	3-3/4 (95)	
MDX-19 - HEAVY	16.0 (7.260)	AMDX-19 - HEAVY	-	5-0 (127)	7-1/2 (190)	3-3/4 (95)	

METRIC SIZES

STREAMLINED SHAFT ANODES - MDX METRIC SERIES

MDX-20MM	13.00 (5.900)	AMDX-20MM	-	20mm	7 1/2 (190)	3-3/4 (95)
MDX-25MM	0.98 (0.445)	AMDX-25MM	0.39 (0.177)	25mm	2-1/8 (54)	2-1/8 (54)
MDX-30MM	1.75 (0.795)	AMDX-30MM	0.68 (0.309)	30mm	2-1/2 (64)	2-3/8 (60)
MDX-35MM	1.50 (0.682)	AMDX-35MM	0.59 (0.268)	35mm	2-1/2 (64)	2-1/2 (64)
MDX-40MM	4.45 (2.023)	AMDX-40MM	1.74 (0.791)	40mm	3-9/16 (90)	2-7/8 (63)
MDX-45MM	4.05 (1.841)	AMDX-45MM	1.58 (0.718)	45mm	3-9/16 (90)	2-7/8 (63)
MDX-50MM	3.65 (1.659)	AMDX-50MM	1.43 (0.650)	50mm	3-9/16 (90)	2-7/8 (63)
MDX-60MM	5.60 (2.545)	AMDX-70MM	2.19 (0.900)	60mm	4-1/4 (108)	3-3/4 (95)
MDX-70MM	5.90 (2.680)	AMDX-60MM	2.40 (1.091)	70mm	TBD June 2020	
MDX-75MM	6.10 (2.773)	AMDX-75MM	2.60 (1.182)	75mm	4-3/4 (121)	3-5/8 (92)
MDX-80MM	8.20 (3.720)	AMDX-80MM	3.00 (1.360)	80mm	5-1/4 (133)	3-3/4 (95)
MDX-85MM	-	AMDX-85MM	-	85mm	Weights and Dimensions Available June 2020	

SHAFT ANODE

MDX-0H to MDX-5 — 2 Bolt
MDX-5A to MDX-20 — 4 Bolt



RELIANCE PRODUCTS
100% MANUFACTURED
IN NORTH AMERICA



ZINC FOR SALT WATER

ALUMINUM FOR SALT AND BRACKISH WATER

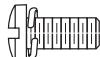
Pleasure Craft Shaft Anodes

Reliance Shaft Anodes mount to the shaft with stainless steel slot head screws. Socket cap screws available on request.

Allen head with lock washer
& bolt retaining washer



OR Slotted head with lock washer
& bolt retaining washer



MARCH 2019

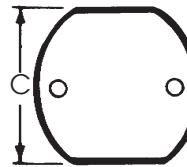
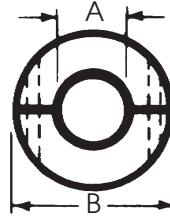
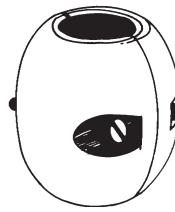
STREAMLINED SHAFT ANODES - MDX HEAVY 2 BOLT SERIES

INTERLOCK

ZINC ANODES		ALUMINUM ANODES		NOMINAL DIMENSIONS			
TYPE NUMBER	NOM. WEIGHT lbs. (kgs.)	TYPE NUMBER	NOM. WEIGHT lbs. (kgs.)	A-SHAFT		B-DIAMETER	C-LENGTH
				in (mm)	in (mm)	in (mm)	in (mm)
MDX-5 - 2 BOLT	1.17 (0.532)	AMDX-5 - 2 BOLT	0.45 (0.209)	1-1/4 (32)	2-3/8 (60)	2-1/2 (64)	
MDX-6 - 2 BOLT	1.42 (0.645)	AMDX-6 - 2 BOLT	0.55 (0.250)	1-3/8 (35)	2-1/2 (64)	2-1/2 (64)	
MDX-7 - 2 BOLT	1.33 (0.605)	AMDX-7 - 2 BOLT	0.52 (0.236)	1-1/2 (38)	2-1/2 (64)	2-1/2 (64)	
MDX-8 - 2 BOLT	2.53 (1.150)	AMDX-8 - 2 BOLT	0.99 (0.450)	1-3/4 (44)	3-1/4 (83)	2-7/8 (73)	
MDX-9 - 2 BOLT	2.01 (0.914)	AMDX-9 - 2 BOLT	0.79 (0.359)	2-0 (51)	3-1/4 (83)	2-7/8 (73)	
MDX-9A - 2 BOLT	6.48 (2.945)	AMDX-9A - 2 BOLT	-	2-1/8 (54)	4-1/4 (105)	3-3/4 (95)	
MDX-10 - 2 BOLT	6.03 (1.550)	AMDX-10 - 2 BOLT	2.36 (1.073)	2-1/4 (57)	4-1/4 (105)	3-3/4 (95)	
MDX-10A - 2 BOLT	5.58 (2.536)	AMDX-10A - 2 BOLT	2.18 (0.991)	2-3/8 (60)	4-1/4 (105)	3-3/4 (95)	
MDX-11 - 2 BOLT	5.13 (2.332)	AMDX-11 - 2 BOLT	2.00 (0.909)	2-1/2 (64)	4-1/4 (105)	3-3/4 (95)	
MDX-12 - 2 BOLT	6.92 (3.145)	AMDX-12 - 2 BOLT	2.70 (1.227)	2-3/4 (64)	4-3/4 (121)	4-3/4 (121)	
MDX-13 - 2 BOLT	5.94 (2.700)	AMDX-13 - 2 BOLT	2.32 (1.055)	3-0 (54)	4-3/4 (121)	4-3/4 (121)	

SHAFT ANODE

MDX-0H to MDX-5 — 2 Bolt
MDX-5A to MDX-19 — 2 Bolt

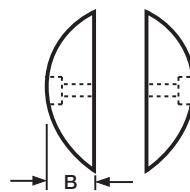
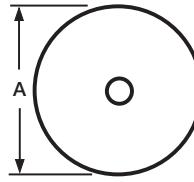


Pleasure Craft Rudder Anodes

Consist of two anodes for mounting on each side of the rudder. Supplied with stainless slot head screws. Socket cap screws on request. Halves available with nut.

PLEASURE CRAFT RUDDER ANODES

ZINC ANODES		ALUMINUM ANODES		NOMINAL DIMENSIONS	
TYPE NUMBER	NOM. WEIGHT lbs. (kg)	TYPE NUMBER	NOM. WEIGHT lbs. (kg)	A DIAMETER in (mm)	DIMENSION B in (mm)
				in (mm)	in (mm)
MDR-1	0.23 (0.105)	AMDR-1	0.09 (0.041)	1-7/8 (47)	1/4 (6)
MDR-2	0.90 (0.409)	AMDR-2	0.35 (0.159)	2-13/16 (71)	1/2 (13)
MDR-3	1.57 (0.714)	AMDR-3	0.61 (0.277)	3-3/4 (95)	1/2 (13)
MDR-3 - HEAVY	2.60 (1.182)	AMDR-3 - HEAVY	-	4-0 (102)	5/8 (16)
MDR-4	3.54 (1.609)	AMDR-4	1.38 (0.627)	5-0 (125)	5/8 (16)
MDR-5	4.83 (2.195)	AMDR-5	1.89 (0.859)	5-1/8 (130)	7/8 (22)
MDR-7	9.17 (4.168)	AMDR-7	3.58 (1.627)	6-1/2 (165)	7/8 (22)

RUDDER ANODE

MDR-3HVY
(FOOT PRINT OF R-3)

RELIANCE PRODUCTS - 100% MANUFACTURED IN NORTH AMERICA

reliance

Pleasure Craft
Anodes



Reliance Donut Anodes mount to the shaft with stainless steel slot head screws. Socket cap screws available on request.

LIMITED CLEARANCE ANODES - MDC SERIES

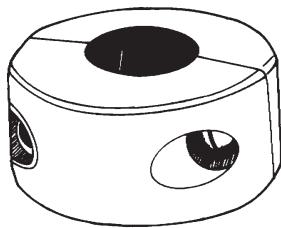
ZINC ANODES		ALUMINUM ANODES		NOMINAL DIMENSIONS		
TYPE NUMBER	NOM. WEIGHT lbs. (kg)	TYPE NUMBER	NOM. WEIGHT lbs. (kg)	A-SHAFT DIA. in (mm)	B-DIAMETER in (mm)	C-THICKNESS In (mm)
MDC-1	0.67 (0.305)	AMDC-1	0.26 (0.118)	3/4 (19)	2-1/8 (54)	1-0 (25)
MDC-2	0.64 (0.291)	AMDC-2	0.25 (0.114)	7/8 (22)	2-1/8 (54)	1-0 (25)
MDC-3	1.03 (0.468)	AMDC-3	0.43 (0.195)	1-0 (25)	2-1/2 (64)	1-1/4 (33)
MDC-4	1.23 (0.559)	AMDC-4	0.40 (0.182)	1-1/8 (29)	2-1/2 (64)	1-1/4 (33)
MDC-5	0.98 (0.445)	AMDC-5	0.38 (0.173)	1-1/4 (32)	2-1/2 (64)	1-1/4 (33)
MDC-6	1.48 (0.673)	AMDC-6	0.58 (0.264)	1-3/8 (35)	3-0 (75)	1-1/4 (33)
MDC-7	1.42 (0.645)	AMDC-7	0.55 (0.250)	1-1/2 (38)	3-0 (75)	1-1/4 (33)
MDC-8	3.11 (1.414)	AMDC-8	1.21 (0.550)	1-3/4 (44)	4-0 (102)	1-3/8 (35)
MDC-9	2.79 (1.268)	AMDC-9	1.27 (0.577)	2-0 (50)	4-0 (102)	1-3/8 (35)
MDC-9A	2.56 (1.164)	AMDC-9A	1.00 (0.455)	2-1/4 (57)	4-0 (102)	1-3/8 (35)
MDC-12	4.59 (2.086)	AMDC-12	1.79 (0.814)	2-1/2 (64)	5-0 (125)	1-1/2 (38)
MDC-12A	4.48 (2.036)	AMDC-12A	1.75 (0.795)	2-3/4 (70)	5-0 (125)	1-1/2 (38)
MDC-13	4.11 (1.868)	AMDC-13	1.61 (0.732)	3-0 (75)	5-0 (125)	1-1/2 (38)
MDC-13A	8.30 (3.770)	AMDC-13A	-	3-1/4 (83)	6-1/2 (125)	1-1/2 (38)
MDC-14	7.80 (3.545)	AMDC-14	3.05 (1.386)	3-1/2 (89)	6-1/2 (125)	1-1/2 (38)
MDC-15	6.70 (3.045)	AMDC-15	2.62 (1.191)	4-0 (100)	6-1/2 (125)	1-1/2 (38)
MDC-18	11.10 (5.045)	AMDC-18	-	4-1/2 (114)	7-5/8 (194)	1-1/2 (38)
MDC 19	9.80 (4.455)	AMDC 19	-	5-0 (127)	7-5/8 (194)	1-1/2 (38)

LIMITED CLEARANCE ANODES - MDC HEAVY SERIES

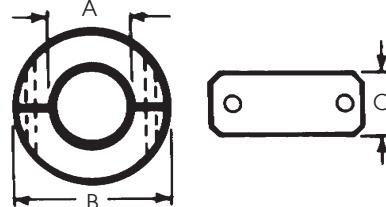
ZINC ANODES		ALUMINUM ANODES		NOMINAL DIMENSIONS		
TYPE NUMBER	NOM. WEIGHT lbs. (kg)	TYPE NUMBER	NOM. WEIGHT lbs. (kg)	A-SHAFT DIA. in (mm)	B-DIAMETER in (mm)	C-THICKNESS In (mm)
MDC-0 - HEAVY	0.70 (0.318)	AMDC-0 - HEAVY	0.27 (0.123)	1/2 (13)	2-1/8 (54)	1-0 (25)
MDC-0A - HEAVY	0.73 (0.332)	AMDC-0A - HEAVY	0.29 (0.132)	5/8 (16)	2-1/8 (54)	1-0 (25)
MDC-10 - HEAVY	5.60 (2.545)	AMDC-10 - HEAVY	-	2-0 (51)	5-0 (127)	1-1/2 (38)
MDC-11 - HEAVY	5.30 (2.409)	AMDC-11 - HEAVY	-	2-1/4 (57)	5-0 (127)	1-1/2 (38)

METRIC SIZES

MDC-20	1.00 (0.450)	AMDC-20	0.50 (0.230)	20mm	2-1/2 (64)	1-1/4 (33)
MDC-25	1.05 (0.477)	AMDC-25	0.52 (0.236)	25mm	2-1/2 (64)	1-1/4 (33)
MDC-30	1.10 (0.500)	AMDC-30	0.47 (0.214)	30mm	2-1/2 (64)	1-1/4 (33)
MDC-35	1.48 (0.673)	AMDC-35	0.66 (0.300)	35mm	3-0 (75)	1-1/4 (33)
MDC-40	1.36 (0.618)	AMDC-40	0.61 (0.277)	40mm	3-0 (75)	1-1/4 (33)
MDC-45	3.10 (1.409)	AMDC-45	1.32 (0.600)	45mm	4-0 (102)	1-3/8 (35)
MDC-50	2.80 (1.273)	AMDC-50	1.23 (0.559)	50mm	4-0 (102)	1-3/8 (35)



DONUT ANODE

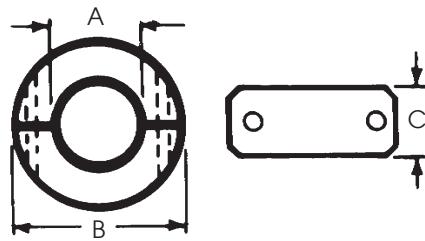
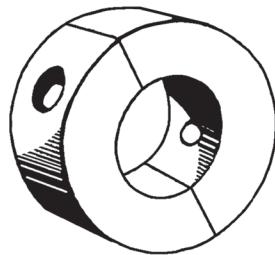


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BENETEAU LC EURO COLLAR ANODES

ZINC ANODES		ALUMINUM ANODES		NOMINAL DIMENSIONS		
TYPE NUMBER	NOM. WEIGHT lbs. (kg)	TYPE NUMBER	NOM. WEIGHT lbs. (kg)	A-SHAFT DIA. in (mm)	B-DIAMETER in (mm)	C-THICKNESS In (mm)
MD-BLC EURO 22MM	0.49 (0.223)	AMD-BLC EURO 22MM	0.25 (0.114)	7/8 (22MM)	2-1/2 (60)	5/8 (15)
MD-BLC EURO 25MM	0.90 (0.410)	AMD-BLC EURO 25MM	0.39 (0.177)	1 (25MM)	3 (75)	5/8 (15)
MD-BLC EURO 30MM	0.90 (0.410)	AMD-BLC EURO 30MM	0.31 (0.141)	1-1/8 (30MM)	3 (75)	5/8 (15)
MD-BLC EURO 35MM	0.80 (0.360)	AMD-BLC EURO 35MM	0.31 (0.141)	1-3/8 (35MM)	3 (75)	11/16 (18)
MD-BLC EURO 40MM	0.70 (0.318)	AMD-BLC EURO 40MM	0.33 (0.150)	1-1/2 (40MM)	3 (75)	11/16 (18)
MD-BLC EURO 45MM	1.00 (0.450)	AMD-BLC EURO 45MM	0.40 (0.182)	1-3/4 (45MM)	3-1/2 (92)	11/16 (18)
MD-BLC EURO 50MM	1.00 (0.450)	AMD-BLC EURO 50MM	0.29 (0.132)	2 (50MM)	3-1/2 (92)	11/16 (18)

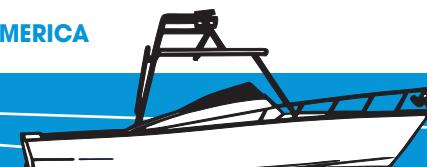
**BENETEAU STD LC COLLAR ANODES**

ZINC ANODES		ALUMINUM ANODES		NOMINAL DIMENSIONS		
TYPE NUMBER	NOM. WEIGHT lbs. (kg)	TYPE NUMBER	NOM. WEIGHT lbs. (kg)	A-SHAFT DIA. in (mm)	B-DIAMETER in (mm)	C-THICKNESS In (mm)
MD-BEN STD LC 1"	0.49 (0.223)	AMD-BEN STD LC 1"	0.25 (0.114)	1 (25MM)	3 (75)	5/8 (16)
MD-BEN STD LC 1-1/8"	0.49 (0.223)	AMD-BEN STD LC 1-1/8"	0.25 (0.114)	1-1/8 (30MM)	3 (75)	5/8 (16)
MD-BEN STD LC 1-1/4"	0.49 (0.223)	AMD-BEN STD LC 1-1/4"	0.25 (0.114)	1-1/4 (32MM)	3 (75)	5/8 (16)
MD-BEN STD LC 1-1/2"	0.70 (0.320)	AMD-BEN STD LC 1-1/2"	0.33 (0.150)	1-1/2 (40MM)	3 (75)	11/16 (18)
MD-BEN STD LC 1-3/4"	0.75 (0.340)	AMD-BEN STD LC 1-3/4"	0.38 (0.170)	1-3/4 (45MM)	3-3/4 (95)	11/16 (18)
MD-BEN STD LC 2"	1.25 (0.570)	AMD-BEN STD LC 2"	0.54 (0.240)	2 (50MM)	3-1/4 (83)	11/16 (18)

**MD-XO- DEICER SHAFT ANODE-1/2"**

NOMINAL DIMENSIONS				
SHAFT DIA.	DIAMETER	LENGTH	WEIGHT	
in (mm)	in (mm)	in (mm)	lbs.	(kg)
1/2 (13)	1-1/2 (38)	1-1/4 (32)	0.40	(0.18)

RELIANCE PRODUCTS - 100% MANUFACTURED IN NORTH AMERICA

Pleasure Craft
Anodes

These plate and streamlined anodes are used to protect the hull and other areas of pleasure craft subject to galvanic corrosion. Bolt-on style.

PLEASURE CRAFT HULL ANODES

ZINC ANODES		ALUMINUM ANODES		NOMINAL DIMENSIONS				
TYPE NUMBER	NOM. WEIGHT	TYPE NUMBER	NOM. WEIGHT	A-LENGTH in (mm)	B-WIDTH in (mm)	C-DEPTH in (mm)	D-C/C in (mm)	
	lbs. (kg)		lbs. (kg)					
MD-ZHC-2	2.30 (1.045)	AMD-ZHC-2	0.9 (0.409)	5-3/4 (146)	2-5/8 (67)	3/4 (19)	2 7/8 (73)	
MD-ZHC-3H-HEAVY	3.50 (1.590)	AMD-ZHC-3H-HEAVY	1.75 (0.790)	6-1/4 (159)	2-3/4 (70)	3/4 (19)	2 7/8 (73)	
**MD-DIVERS MINI 4 X 6 HEAVY	2.80 (1.273)	**AMD-DIVERS MINI 4X6 HEAVY	1.19 (0.541)	6-0 (152)	4-0 (102)	9/16 (14)	2 3/4 (69)	
MD-ZHC-5	4.60 (2.090)	AMD-ZHC-5	1.84 (0.836)	8-0 (203)	4-0 (102)	3/4 (19)	4 1/2 (114)	
MD-ZHC-5H-HEAVY	6.60 (2.990)	AMD-ZHC-5H-HEAVY	3.30 (1.500)	8-0 (203)	4-0 (102)	1 (25)	4-1/2 (114)	
MD-ZHC-6	5.50 (2.490)	AMD-ZHC-6	2.39 (1.080)	7-7/8 (200)	3-7/8 (98)	7/8 (22)	4-3/16 (106)	
MD-DD-6 X 6 DIVERS	4.60 (2.150)	AMD-DD-6X6 DIVERS	1.85 (1.250)	6-0 (152)	6-0 (152)	1/2 (13)	2-7/8 (73)	
MD-DD-6 X 6 DIVERS HEAVY	6.00 (2.720)	AMD-DD-6X6 DIVERS HEAVY	1.90 (0.860)	6-0 (152)	6-0 (152)	5/8 (16)	2 7/8 (73)	
MD-103862-15	15.00 (6.800)	AMD-103862-15	6.00 (2.720)	7-0 (178)		1-1/2 (38)	2 3/4 (69)	
MD-DD-6 X 6 DIVERS X-HEAVY	8.00 (3.630)	AMD-DD-6X6 DIVERS X-HEAVY	2.96 (1.342)	6-0 (152)	6-0 (152)	1-0 (25)	2 7/8 (73)	
MD-DD-6 X 12 DIVERS	7.50 (3.409)	AMD-DD-6X12 DIVERS	2.95 (1.341)	12-0 (305)	6-0 (152)	1/2 (13)	5 1/2 (140)	
MD-DDX-6 X 12 DIVERS DLX	9.38 (4.264)	AMD-DD-6X12 DIVERS DLX	N/A (N/A)	12-0 (305)	6-0 (152)	3/4 (19)	5 1/2 (140)	
MD-DD-6 X 12-HEAVY	10.5-11.5 (5.000)	AMD-DD-6X12-HEAVY	5.00 (2.270)	12-0 (305)	6-0 (152)	1-0 (25)	5 1/2 (140)	
DIVERS SUPER HEAVY S-AL	20.0 (9.070)	ADIVERS SUPER HEAVY S-AL	8.33 (3.780)	14-0 (356)	6-1/2 (165)	1-1/4 (32)	5 1/2 (140)	
***MD-ZHC-22 S-AL	22.0 (9.980)	***AMD-ZHC-22 S-AL	7.78 (3.530)	17-0 (425)	3-3/4 (94)	2-0 (50)	8-0 (203)	
MD-Z-10 BAYLINER	8.90 (4.045)	AMD-Z-10 BAYLINER	3.39 (1.541)	12-0 (305)	6-0 (152)	5/8 (16)	4 1/2 (115)	
MD-Z-03B	13.70 (6.227)	AMD-Z-03B	5.2 (2.364)	12-0 (305)	3-0 (76)	1-1/2 (38)	8 - 9 (203 - 228)	
*MD-ZD-76 MINI EURO S-AL	3.00 (1.318)	*AMD-ZD-76 MINI EURO S-AL	1.45 (0.659)	8-0 (200)	2-1/2 (65)	1-1/4 (32)	4-1/4 (110)	
MD-ZHC-15 HEAVY	18.0 (4.560)	AMD-ZHC-15 HEAVY	8.65 (3.920)	18-0 (456)	4-0 (102)	1-3/4 (44)	9-0 (229)	
MD-21174476	13.5 (6.140)	AMD-21174476	5.75 (2.610)	16-1/2 (413)	3-7/8 (66)	1-1/2 (38)	5-1/2 (140)	
MD-40005875	8.00 (3.630)	AMD-40005875	3.40 (1.550)	10-1/2 (266)	3-7/8 (98)	1-1/2 (38)	5-1/2 (140)	

* S-AL Designates: Slotted with Aluminum Inserts | ** Designates: Also known as MD-ZHC-4H-HEAVY | *** MD-ZHC-22 & *** AMD-ZHC-22: E-INNER DIA: 3.18 in (80 mm)

PLEASURE CRAFT HULL ANODES

ZINC ANODES		ALUMINUM ANODES		NOMINAL DIMENSIONS				
TYPE NUMBER	NOM. WEIGHT	TYPE NUMBER	NOM. WEIGHT	A-LENGTH in (mm)	B-WIDTH in (mm)	C-DEPTH in (mm)	D - C/C in (mm)	
	lbs. (kg)		lbs. (kg)					
MDZC-406 - MD-B-12	8.35 (3.795)	AMDZC-406	3.00 (1.364)	8-5/8 (219)	4-1/4 (108)	1-0 (25)	5-0 (127)	
MD-B-15	9.00 (4.080)	AMD-B-15	4.43 (2.010)	9 (228)	4-1/4 (108)	1-1/8 (30)	5-1/8 (130)	
M-24	0.73 (0.332)	AM-24	0.29 (0.132)	4-3/4 (121)	2-0 (51)	3/4 (19)	1-1/4 (32)	
M-25	4.00 (1.810)	AM-25	1.62 (0.736)	9-1/4 (235)	3-3/8 (86)	3/4 (19)	3-7/8 (98)	
MD-A-25	4.00 (1.820)	AMD-A-25	1.62 (0.740)	9-1/4 (235)	3 3/8 (86)	3/4 (19)	1 3/4 (44)	
MDZ-404 A - 90 MD-9000	5.00 (2.270)	AMDZ-404 A - 90 AMD-9000	2.10 (0.950)	9-1/4 (235)	3-3/8 (86)	1-0 (25)	— — — —	
MD-VETUS 8	2.20 (1.000)	AMD-VETUS 8	1.00 (0.450)	1.8 (45)	1.8 (45)	— — — —	— — — —	
ZD-77 EURO S-AL	5.00 (2.400)	AZD-77 EURO S-AL	2.50 (1.140)	12-1/2 (318)	2.2 (64)	1-1/4 (32)	4-8 (110-210)	

* Designates: If thicker may require larger stud. Check before ordering.

SDesignates Slotted

AL.... Designates Aluminum Insert

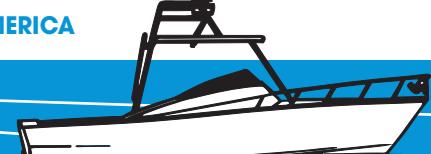
Pleasure Craft Teardrop Anodes

Teardrop Anodes are streamlined types for use on large surfaces of pleasure craft.

PLEASURE CRAFT TEARDROP ANODES (FOR HULL)

ZINC ANODES		ALUMINUM ANODES		NOMINAL DIMENSIONS				
TYPE NUMBER	NOM. WEIGHT	TYPE NUMBER	NOM. WEIGHT	A-LENGTH in (mm)	B-WIDTH in (mm)	C-DEPTH in (mm)	DIMENSION C-C/C in (mm)	
	lbs. (kg.)		lbs. (kg.)					
MDT-20	0.40 (0.182)	AMDT-20	0.14 (0.064)	3-1/2 (89)	1-3/4 (44)	1-1/4 (35)		
MDT-21	1.00 (0.455)	AMDT-21	0.39 (0.177)	5-1/4 (134)	2-0 (50)	1-5/8 (41)		
MDTD-S	0.55 (0.250)	AMDTD-S	0.19 (0.010)	3-5/8 (92)	1-5/8 (41)	1-15/16 (34)		
MDTD-L	0.95 (0.430)	AMDTD-L	0.43 (0.200)	5-1/4 (134)	2-1/8 (53)	1-15/16 (34)		

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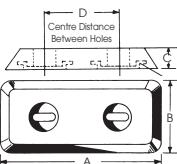


ZINC FOR SALT WATER**ALUMINUM FOR SALT AND BRACKISH WATER**

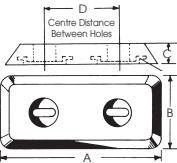
Pleasure Craft Hull Anodes

These plate and streamlined anodes are used to protect the hull and other areas of pleasure craft subject to galvanic corrosion. Bolt-on style.

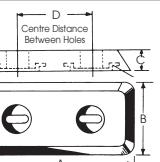
PLEASURE CRAFT HULL ANODES

**MD-ZHC-2**

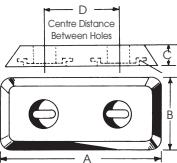
	PART#	A-LENGTH in (mm)	B-WIDTH in (mm)	C-DEPTH in (mm)	D-C/C in (mm)	WEIGHT LBS (KGS)
ZINC	Z-MD-ZHC-2	5-3/4 (146)	2-5/8 (67)	3/4 (19)	2-7/8 (73)	2.30 (1.045)
ALUM	A-MD-ZHC-2	5-3/4 (146)	2-5/8 (67)	3/4 (19)	2-7/8 (73)	0.9 (0.409)

**MD-ZHC-3H-HEAVY**

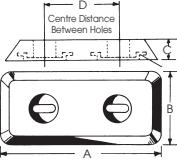
	PART#	A-LENGTH in (mm)	B-WIDTH in (mm)	C-DEPTH in (mm)	D-C/C in (mm)	WEIGHT LBS (KGS)
ZINC	Z-MD-ZHC-3H-HEAVY	6-1/4 (159)	2-3/4 (70)	3/4 (19)	2-7/8 (73)	3.50 (1.590)
ALUM	A-MD-ZHC-3H-HEAVY	6-1/4 (159)	2-3/4 (70)	3/4 (19)	2-7/8 (73)	1.75 (0.79)

**MD-DIVERS MINI 4X6 HEAVY**

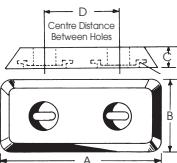
	PART#	A-LENGTH in (mm)	B-WIDTH in (mm)	C-DEPTH in (mm)	D-C/C in (mm)	WEIGHT LBS (KGS)
ZINC	Z-MD-DIVERS MINI 4X6 HEAVY	6-0 (152)	4-0 (102)	9/16 (14)	2-3/4 (69)	2.80 (1.273)
ALUM	A-MD-DIVERS MINI 4X6 HEAVY	6-0 (152)	4-0 (102)	9/16 (14)	2-3/4 (69)	1.19 (0.541)

**MD-ZHC-5**

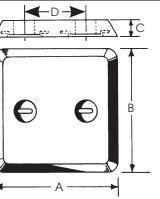
	PART#	A-LENGTH in (mm)	B-WIDTH in (mm)	C-DEPTH in (mm)	D-C/C in (mm)	WEIGHT LBS (KGS)
ZINC	Z-MD-ZHC-5	8-0 (203)	4-0 (102)	3/4 (19)	4-1/2 (114)	4.60 (2.090)
ALUM	A-MD-ZHC-5	8-0 (203)	4-0 (102)	3/4 (19)	4-1/2 (114)	1.84 (0.836)

**MD-ZHC-5-HEAVY**

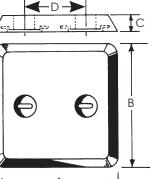
	PART#	A-LENGTH in (mm)	B-WIDTH in (mm)	C-DEPTH in (mm)	D-C/C in (mm)	WEIGHT LBS (KGS)
ZINC	Z-MD-ZHC-5-HEAVY	8-0 (203)	4-0 (102)	1-0 (25)	4-1/2 (114)	6.60 (2.990)
ALUM	A-MD-ZHC-5-HEAVY	8-0 (203)	4-0 (102)	1-0 (25)	4-1/2 (114)	3.30 (1.500)

**MD-ZHC-6**

	PART#	A-LENGTH in (mm)	B-WIDTH in (mm)	C-DEPTH in (mm)	D-C/C in (mm)	WEIGHT LBS (KGS)
ZINC	Z-MD-ZHC-6	7-7/8 (200)	3-7/8 (98)	7/8 (22)	4-3/16 (106)	5.60 (2.490)
ALUM	A-MD-ZHC-6	7-7/8 (200)	3-7/8 (98)	7/8 (22)	4-3/16 (106)	2.39 (1.080)

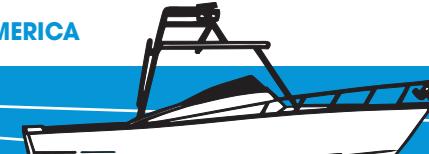
**MD-6 X 6 DIVERS**

	PART#	A-LENGTH in (mm)	B-WIDTH in (mm)	C-DEPTH in (mm)	D-C/C in (mm)	WEIGHT LBS (KGS)
ZINC	Z-MD-6 X 6 DIVERS	6-0 (152)	6-0 (152)	1/2 (13)	2-7/8 (73)	4.60 (2.150)
ALUM	A-MD-6 X 6 DIVERS	6-0 (152)	6-0 (152)	1/2 (13)	2-7/8 (73)	1.85 (0.840)

**MD-6 X 6 DIVERS-HEAVY**

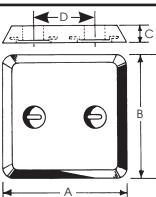
	PART#	A-LENGTH in (mm)	B-WIDTH in (mm)	C-DEPTH in (mm)	D-C/C in (mm)	WEIGHT LBS (KGS)
ZINC	Z-MD-6 X 6 DIVERS-HEAVY	6-0 (152)	6-0 (152)	5/8 (16)	2-7/8 (73)	6.00 (2.720)
ALUM	A-MD-6 X 6 DIVERS-HEAVY	6-0 (152)	6-0 (152)	5/8 (16)	2-7/8 (73)	1.90 (0.860)

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reliance**Pleasure Craft
Anodes**

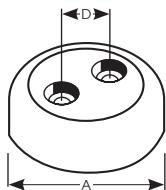
These plate and streamlined anodes are used to protect the hull and other areas of pleasure craft subject to galvanic corrosion. Bolt-on style.

PLEASURE CRAFT HULL ANODES



MD-6 X 6 DIVERS X-HEAVY

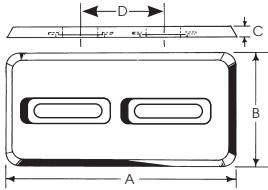
	PART#	A-LENGTH in (mm)	B-WIDTH in (mm)	C-DEPTH in (mm)	D-C/C in (mm)	WEIGHT LBS (KGS)
ZINC	Z-MD-6 X 6 DIVERS X-HEAVY	6-0 (152)	6-0 (152)	1-0 (25)	2-7/8 (73)	8.00 (3.63)
ALUM	A-MD-DD-6 X 6 DIVERS X-HEAVY	6-0 (152)	6-0 (152)	1-0 (25)	2-7/8 (73)	2.96 (1.34)



MD-103862-14

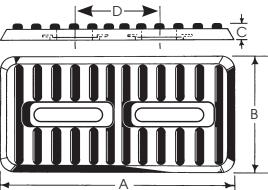
	PART#	A-LENGTH in (mm)	B-WIDTH in (mm)	C-DEPTH in (mm)	D-C/C in (mm)	WEIGHT LBS (KGS)
ZINC	Z-MD-103862-14	7-0 (178)	—	1-1/2 (38)	2-3/4 (69)	14.00 (6.35)
ALUM	A-MD-103862-14	7-0 (178)	—	1-1/2 (38)	2-3/4 (69)	5.45 (2.47)

The DD6X6, DD6X6 Heavy, DD6X6 X-Heavy & 103862-15 are a popular low cost alternative to the HJ-103862



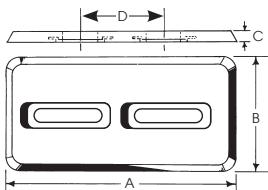
MD-DD-6 X 12 DIVERS

	PART#	A-LENGTH in (mm)	B-WIDTH in (mm)	C-DEPTH in (mm)	D-C/C in (mm)	WEIGHT LBS (KGS)
ZINC	Z-MD-DD-6 X 12 DIVERS	12.0 (305)	6.0 (152)	1/2 (13)	5-1/2 (140)	7.50 (3.409)
ALUM	A-MD-DD-6 X 12 DIVERS	12.0 (305)	6.0 (152)	1/2 (13)	5-1/2 (140)	2.95 (1.341)



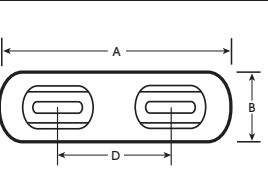
MD-DDX-6 X 12 DIVERS DLX

	PART#	A-LENGTH in (mm)	B-WIDTH in (mm)	C-DEPTH in (mm)	D-C/C in (mm)	WEIGHT LBS (KGS)
ZINC	Z-MD-DDX-6X12 DIVERS DLX	12-0 (305)	6-0 (152)	3/4 (19)	5-1/2 (140)	9.38 (4.264)
N/A	N/A					



MD-DD 6 X 12 DIVERS HEAVY

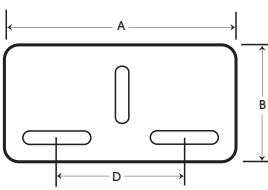
	PART#	A-LENGTH in (mm)	B-WIDTH in (mm)	C-DEPTH in (mm)	D-C/C in (mm)	WEIGHT LBS (KGS)
ZINC	Z-MD-DD 6X12 DIVERS HEAVY	12-0 (305)	6-0 (152)	3/4 (19)	5-1/2 (140)	10.5-11.5 (5.00)
ALUM	A-MD-DD 6X12 DIVERS HEAVY	12-0 (305)	6-0 (152)	3/4 (19)	5-1/2 (140)	5.00 (2.27)



DIVERS SUPER HEAVY

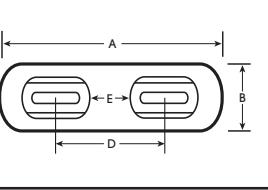
	PART#	A-LENGTH in (mm)	B-WIDTH in (mm)	C-DEPTH in (mm)	D-C/C in (mm)	WEIGHT LBS (KGS)
ZINC	Z-DIVERS SUPER HEAVY	14-0 (356)	6-1/2 (165)	1.25 (32)	5-1/2 (140)	20.0 (9.07)
ALUM	A-DIVERS SUPER HEAVY	14-0 (356)	6-1/2 (165)	1.25 (32)	5-1/2 (140)	8.33 (3.78)

SLOTTED WITH ALUMINUM INSERT



MD-Z-10 BAYLINER

	PART#	A-LENGTH in (mm)	B-WIDTH in (mm)	C-DEPTH in (mm)	D-C/C in (mm)	WEIGHT LBS (KGS)
ZINC	Z-MD-Z-10 BAYLINER	12-0 (305)	6-0 (152)	5/8 (16)	4-1/2 (115)	8.90 (4.045)
ALUM	A-MD-Z-10 BAYLINER	12-0 (305)	6-0 (152)	5/8 (16)	4-1/2 (115)	3.39 (1.541)



MD-ZHC-22

	PART#	A-LENGTH in (mm)	B-WIDTH in (mm)	C-DEPTH in (mm)	D-C/C in (mm)	E-INNER DIA in (mm)	WEIGHT LBS (KGS)
ZINC	MD-ZHC-22	17.0 (425)	3.75 (94)	2.00 (50)	8.0 (203)	3.18 (80)	21.0 (9.53)
ALUM	AMD-ZHC-22	17.0 (425)	3.75 (94)	2.00 (50)	8.0 (203)	3.18 (80)	7.78 (3.53)

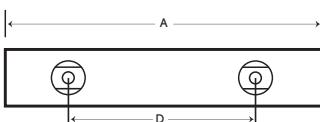
SLOTTED WITH ALUMINUM INSERT

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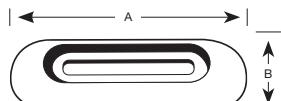


These plate and streamlined anodes are used to protect the hull and other areas of pleasure craft subject to galvanic corrosion. Bolt-on style.

PLEASURE CRAFT HULL ANODES

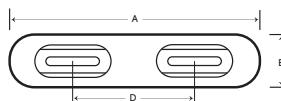
**MD-Z-03B**

		A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
	PART#	in (mm)	in (mm)	in (mm)	in (mm)	LBS (KGS)
ZINC	Z-MD-Z-03B	12-0 (305)	3-0 (76)	1-1/2 (38)	8-9 (203-228)	13.70 (6.227)
ALUM	A-MD-Z-03B	12-0 (305)	3-0 (76)	1-1/2 (38)	8-9 (203-228)	5.2 (2.364)

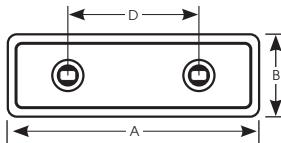
**MD-ZD-76 MINI EURO**

		A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
	PART#	in (mm)	in (mm)	in (mm)	in (mm)	LBS (KGS)
ZINC	Z-MD-ZD-76 MINI EURO	8-0 (200)	2-1/2 (65)	1-1/4 (32)	4-1/4 (110)	3.00 (1.318)
ALUM	A-MD-ZD-76 MINI EURO	8-0 (200)	2-1/2 (65)	1-1/4 (32)	4-1/4 (110)	1.45 (0.659)

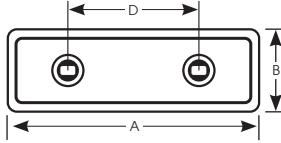
SLOTTED WITH ALUMINUM INSERTS

**MD-ZHC-15 HEAVY**

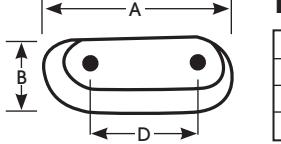
		A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
	PART#	in (mm)	in (mm)	in (mm)	in (mm)	LBS (KGS)
ZINC	Z-MD-ZHC-15 HEAVY	18.0 (456)	4.0 (102)	1.75 (44)	9.0 (229)	18.0 (8.16)
ALUM	A-MD-ZHC-15 HEAVY	18.0 (456)	4.0 (102)	1.75 (44)	9.0 (229)	8.65 (3.92)

**MD-21174476**

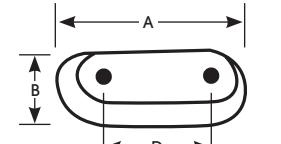
		A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
	PART#	in (mm)	in (mm)	in (mm)	in (mm)	LBS (KGS)
ZINC	Z-MD-21174476	16-1/2 (413)	3-7/8 (66)	1-1/2 (38)	5-1/2 (140)	13.5 (6.14)
ALUM	A-MD-21174476	16-1/2 (413)	3-7/8 (66)	1-1/2 (38)	5-1/2 (140)	5.75 (2.61)

**MD-40005875**

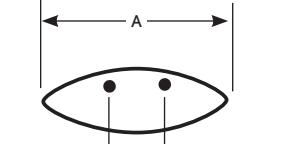
		A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
	PART#	in (mm)	in (mm)	in (mm)	in (mm)	LBS (KGS)
ZINC	Z-MD-40005875	10-1/2 (266)	3-7/8 (66)	1-1/2 (38)	5-1/2 (140)	8.0 (3.63)
ALUM	A-MD-40005875	10-1/2 (266)	3-7/8 (66)	1-1/2 (38)	5-1/2 (140)	3.40 (1.55)

**MD-ZC-406 / MD-B-12**

		A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
	PART#	in (mm)	in (mm)	in (mm)	in (mm)	LBS (KGS)
ZINC	Z-MD-ZC-406 / Z-MD-B-12	8-5/8 (219)	4-1/4 (108)	1 (25)	5 (127)	8.35 (3.79)
ALUM	A-MD-ZC406 / A-MD-B-12	8-5/8 (219)	4-1/4 (108)	1 (25)	5 (127)	3.00 (1.364)

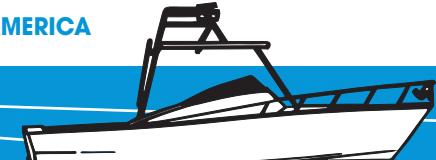
**MD-B-15**

		A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
	PART#	in (mm)	in (mm)	in (mm)	in (mm)	LBS (KGS)
ZINC	Z-MD-B-15	9.0 (228)	4-1/4 (108)	1-1/8 (30)	5-1/8 (130)	9.00 (4.080)
ALUM	A-MD-B-15	9.0 (228)	4-1/4 (108)	1-1/8 (30)	5-1/8 (130)	0.29 (0.132)

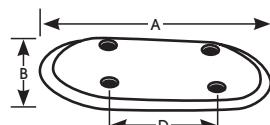
**MD-M-24**

		A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
	PART#	in (mm)	in (mm)	in (mm)	in (mm)	LBS (KGS)
ZINC	Z-MD-M-24	4-3/4 (121)	2-0 (51)	3/4 (19)	1-1/4 (32)	0.73 (0.332)
ALUM	A-MD-M-24	4-3/4 (121)	2-0 (51)	3/4 (19)	1-1/4 (32)	0.29 (0.132)

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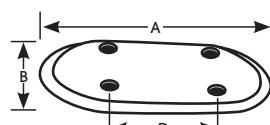
reliancePleasure Craft
Anodes

PLEASURE CRAFT HULL ANODES



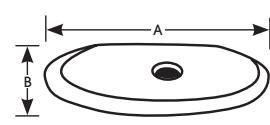
MD-M-25

	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
PART#	in (mm)	in (mm)	in (mm)	in (mm)	LBS (KGS)
ZINC	Z-MD-M-25	9-1/4 (235)	3-3/8 (86)	3/4 (19)	3-7/8 (98) 4.00 (1.810)
ALUM	A-MD-M-25	9-1/4 (235)	3-3/8 (86)	3/4 (19)	3-7/8 (98) 1.62 (0.736)



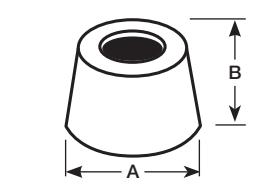
MD-A-25

	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
PART#	in (mm)	in (mm)	in (mm)	in (mm)	LBS (KGS)
ZINC	Z-MD-A-25	9-1/4 (235)	3-3/8 (86)	3/4 (19)	1-3/4 (44) 4.00 (1.820)
ALUM	A-MD-A-25	9-1/4 (235)	3-3/8 (86)	3/4 (19)	1-3/4 (44) 1.62 (0.736)



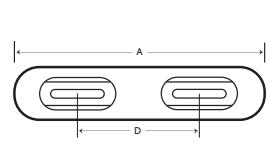
MD-Z-404 / A-90 / MD-900

	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
PART#	in (mm)	in (mm)	in (mm)	in (mm)	LBS (KGS)
ZINC	Z-MDZ-404 / A-90 / MD-900	9-1/4 (235)	3-3/8 (86)	1-0 (25)	-- -- 5.00 (2.270)
ALUM	A-MDZ-404 / A-90 / MD-900	9-1/4 (235)	3-3/8 (86)	1-0 (25)	-- -- 2.10 (0.950)



MD-VETUS 8

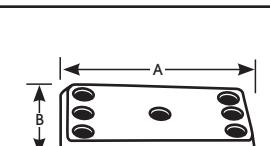
	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
PART#	in (mm)	in (mm)	in (mm)	in (mm)	LBS (KGS)
ZINC	Z-MD-VETUS 8	1-3/4 (45)	1-3/4 (45)	-- --	-- 2.20 (1.00)
ALUM	A-MD-VETUS 8	1-3/4 (45)	1-3/4 (45)	-- --	-- 1.00 (0.450)



ZD-77 EURO

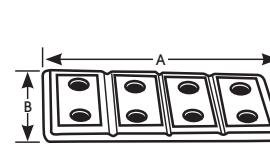
	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
PART#	in (mm)	in (mm)	in (mm)	in (mm)	LBS (KGS)
ZINC	Z-ZD-77 EURO	12-1/2 (318)	2-1/4 (64)	1-1/4 (32)	4 - 8 (110-210) 5.0 (2.40)
ALUM	A-ZD-77 EURO	12-1/2 (318)	2-1/4 (64)	1-1/4 (32)	4 - 8 (110-210) 2.50 (1.14)

SLOTTED WITH ALUMINUM INSERTS



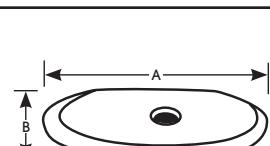
MD-M-30

	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
PART#	in (mm)	in (mm)	in (mm)	in (mm)	LBS (KGS)
ZINC	Z-MD-M-30	6-1/4 (159)	2-3/4 (70)	5/8 (16)	4-1/2 (114) 2.10 (0.955)
ALUM	A-MD-M-30	6-1/4 (159)	2-3/4 (70)	5/8 (16)	4-1/2 (114) 0.81 (0.368)



MD-M-40

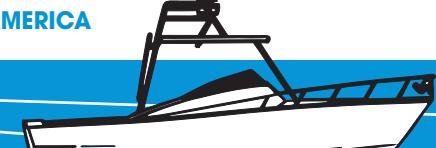
	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
PART#	in (mm)	in (mm)	in (mm)	in (mm)	LBS (KGS)
ZINC	Z-MD-M-40	7-1/2 (191)	2-1/2 (63)	1/2 (13)	2.00 (50) 2.10 (0.960)
ALUM	A-MD-M-40	7-1/2 (191)	2-1/2 (63)	1/2 (13)	2.00 (50) 1.10 (0.500)



MD-N-1

	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
PART#	in (mm)	in (mm)	in (mm)	in (mm)	LBS (KGS)
ZINC	Z-MD-N-1	8-5/8 (219)	3-3/16 (84)	1/2 (13)	-- -- 2.63 (1.195)
ALUM	A-MD-N-1	8-5/8 (219)	3-3/16 (84)	1/2 (13)	-- -- 1.03 (0.468)

RELIANCE PRODUCTS - 100% MANUFACTURED IN NORTH AMERICA

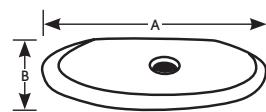


ZINC FOR SALT WATER

ALUMINUM FOR SALT AND BRACKISH WATER

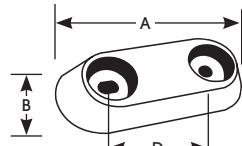
Pleasure Craft Hull Anodes

PLEASURE CRAFT HULL ANODES



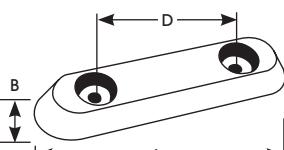
MD-N-1 HEAVY

	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
PART#	in (mm)	in (mm)	in (mm)	in (mm)	LBS (KGS)
ZINC	8-5/8 (219)	3-3/16 (84)	1-0 (25)	--	5.00 (2.270)
ALUM	8-5/8 (219)	3-3/16 (84)	1-0 (25)	--	2.17 (0.980)



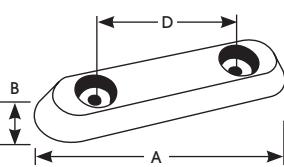
MD-VETUS 15

	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
PART#	in (mm)	in (mm)	in (mm)	in (mm)	LBS (KGS)
ZINC	6 (150)	2-1/2 (60)	1-0 (25)	3-1/8 (80)	2.00 (0.910)
ALUM	6 (150)	2-1/2 (60)	1-0 (25)	3-1/8 (80)	1.00 (0.450)



MD-VETUS 25

	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
PART#	in (mm)	in (mm)	in (mm)	in (mm)	LBS (KGS)
ZINC	9-1/2 (240)	2.40 (60)	1-1/4 (32)	5-1/2 (140)	5.10 (2.300)
ALUM	9-1/2 (240)	2.40 (60)	1-1/4 (32)	5-1/2 (140)	2.50 (1.100)



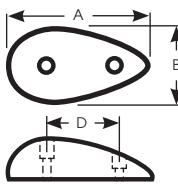
MD-VETUS 35

	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
PART#	in (mm)	in (mm)	in (mm)	in (mm)	LBS (KGS)
ZINC	13-3/4 (350)	2-7/8 (75)	1-1/4 (35)	7-7/8 (200)	10.0 (4.5)
ALUM	13-3/4 (350)	2-7/8 (75)	1-1/4 (35)	7-7/8 (200)	3.85 (1.75)

Pleasure Craft Teardrop Anodes

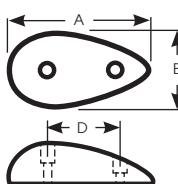
Teardrop Anodes are streamlined types for use on large surfaces of pleasure craft.

PLEASURE CRAFT TEAR DROP ANODES (FOR HULL)



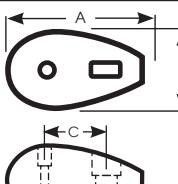
MDT-20

	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
PART#	in (mm)	in (mm)	in (mm)	in (mm)	LBS (KGS)
ZINC	3-1/2 (89)	1-3/4 (44)	--	1-1/4 (35)	0.40 (0.182)
ALUM	3-1/2 (89)	1-3/4 (44)	--	1-1/4 (35)	0.14 (0.064)



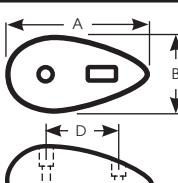
MDT-21

	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
PART#	in (mm)	in (mm)	in (mm)	in (mm)	LBS (KGS)
ZINC	5-1/4 (134)	2-0 (50)	--	1-5/8 (41)	1.00 (0.455)
ALUM	5-1/4 (134)	2-0 (50)	--	1-5/8 (41)	0.39 (0.177)



MDTD-S

	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
PART#	in (mm)	in (mm)	in (mm)	in (mm)	LBS (KGS)
ZINC	3-5/8 (92)	1-5/8 (41)	--	1-15/16 (34)	0.55 (0.250)
ALUM	3-5/8 (92)	1-5/8 (41)	--	1-15/16 (34)	0.19 (0.010)



MDTD-L

	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
PART#	in (mm)	in (mm)	in (mm)	in (mm)	LBS (KGS)
ZINC	5-1/4 (134)	2-1/8 (53)	--	1-15/16 (34)	0.95 (0.430)
ALUM	5-1/4 (134)	2-1/8 (53)	--	1-15/16 (34)	0.43 (0.200)

RELIANCE PRODUCTS - 100% MANUFACTURED IN NORTH AMERICA

reliancePleasure Craft
Anodes

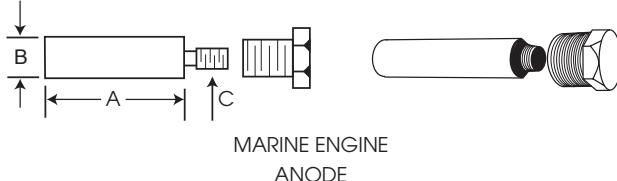
Reliance MDE Series Marine Anodes
consist of a brass plug with anode attached.

PLEASURE CRAFT MARINE ANODES (WITH BRASS PLUG)

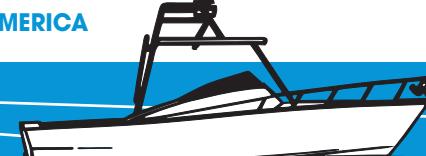
TYPE NUMBER	ZINC ANODES lbs. (kg)	NOM. WEIGHT (kg)	NOMINAL DIMENSIONS					C-PLUG THREAD INT.
			A-LENGTH in (mm)	B-DIAMETER in (mm)	PLUG OD (NPT) in (mm)	C-PLUG THREAD INT.		
ENGINE ANODES - COMPLETE WITH BRASS PLUG								
MDE-00 - COMPLETE	0.05	(0.023)	2-0	(50)	1/4	(6)	1/8	(3) 1/4-20 NC
MDE-0 - COMPLETE	0.05	(0.023)	1-3/4	(44)	3/8	(10)	1/4	(6) 5/16-18 NC
MDE-0A - COMPLETE	0.08	(0.036)	2-1/2	(64)	3/8	(10)	1/4	(6) 5/16-18 NC
MDE-0H - COMPLETE	0.14	(0.064)	1-5/8	(41)	1/2	(13)	3/8	(10) 3/8-16 NC
MDE-1 - COMPLETE	0.10	(0.045)	2-0	(50)	1/2	(13)	3/8	(10) 3/8-16 UNC
MDE-1D - COMPLETE	0.15	(0.068)	1-3/4	(44)	1/2	(13)	3/8	(10) 3/8-16 UNC
MDE-1E - COMPLETE	0.15	(0.068)	1-1/2	(38)	1/2	(13)	3/8	(10) 3/8-16 UNC
MDE-1F - COMPLETE	0.13	(0.059)	1-1/4	(32)	1/2	(13)	3/8	(10) 3/8-16 UNC
MDE-1G - COMPLETE	0.10	(0.045)	1-0	(25)	1/2	(13)	3/8	(10) 3/8-16 NC
MDE-1H - COMPLETE	0.06	(0.027)	2-0	(50)	3/8	(10)	3/8	(10) 3/8-16 NC
MDE-2 - COMPLETE	0.16	(0.073)	2-0	(50)	5/8	(16)	1/2	(13) 7/16-14 NC
MDE-2B - COMPLETE	0.26	(0.118)	3-0	(76)	5/8	(16)	1/2	(13) 7/16-14 NC
MDE-3 - COMPLETE	0.22	(0.100)	2-0	(50)	3/4	(19)	3/4	(19) 1/2-13 NC
MDE-3A - COMPLETE	0.10	(0.045)	3/4	(19)	3/4	(19)	3/4	(19) 1/2-13 NC
MDE-4 - COMPLETE	0.37	(0.168)	3-3/8	(86)	3/4	(19)	3/4	(19) 1/2-13 NC
MDE-5 - COMPLETE	0.38	(0.173)	3-5/8	(86)	3/4	(19)	3/4	(19) 1/2-13 NC
MDE-6 - COMPLETE	0.76	(0.344)	4-3/4	(121)	3/4	(19)	3/4	(19) 1/2-13 NC
MDE-6L - COMPLETE	0.04	(0.018)	1-1/2	(38)	3/8	(9)	-	- 1/4-20 NC
MDE-7 - COMPLETE	1.54	(0.699)	5-0	(127)	1-1/16	(27)	1-0	(25) 3/4-10 NC
MDE-8 - COMPLETE	1.78	(0.807)	2-15/16	(59)	1-1/4	(21)	1-1/4	(32) 3/4-10 NC
REPLACEMENT ANODES - BRASS PLUGS NOT INCLUDED								
MDE-00Z	0.02	(0.010)	2-0	(50)	1/4	(6)	1/8	(3) -
MDE-0BZ	0.04	(0.020)	3/4	(19)	3/8	(10)	1/4	(6) 5/16-18 NC
MDE-0Z	0.05	(0.023)	1-3/4	(44)	3/8	(10)	1/4	(6) -
MDE-0HZ	0.08	(0.036)	2-1/2	(64)	3/8	(10)	1/4	(6) -
MDE-1Z	0.08	(0.036)	2-0	(50)	1/2	(13)	3/8	(10) -
MDE-1DZ	0.07	(0.030)	1-3/4	(45)	1/2	(13)	3/8	(10) -
MDE-1EZ	0.09	(0.041)	1-1/2	(38)	1/2	(13)	3/8	(10) -
MDE-1FZ	0.07	(0.032)	1-1/4	(32)	1/2	(13)	3/8	(10) -
MDE-1GZ	0.06	(0.027)	1	(25)	1/2	(13)	3/8	(10) -
MDE-1HZ	0.07	(0.030)	2-0	(50)	3/8	(10)	3/8	(10) 3/8-16 NC
MDE-2Z	0.15	(0.068)	2-0	(50)	5/8	(16)	1/2	(13) 7/16-14 NC
MDE-3Z	0.22	(0.100)	2-0	(50)	3/4	(19)	3/4	(19) 1/2-13 NC
MDE-4Z	0.38	(0.173)	3-3/8	(86)	3/4	(19)	3/4	(19) 1/2-13 NC
MDE-5Z	0.41	(0.186)	3-5/8	(86)	3/4	(19)	3/4	(19) 1/2-13 NC
MDE-6Z	0.55	(0.249)	4-3/4	(121)	3/4	(19)	3/4	(19) 1/2-13 NC
MDE-6LZ	0.02	(0.009)	1-1/2	(38)	3/8	(9)	-	- 1/4-20 NC
MDE-7Z	1.10	(0.500)	5-0	(127)	1-1/16	(27)	1-0	(25) 3/4-10 NC
MDE-8Z	0.90	(0.409)	2-15/16	(59)	1-1/4	(21)	1-1/4	(32) 3/4-10 NC

BRASS PLUG REPLACEMENT

TYPE NUMBER	lbs. (kg)	UNC
MDE-00 BP	0.01 (0.005)	1/4"
MDE-0 BP	0.03 (0.014)	5/16"
MDE-1 BP	0.06 (0.027)	3/8"
MDE-2 BP	0.11 (0.050)	3/8"
MDE-3/4/5 BP	0.21 (0.095)	3/8"
MDE-6 BP	0.21 (0.095)	1/2"
MDE-7 BP	0.44 (0.195)	3/4"
MDE-8 BP	0.88 (0.40)	3/4"

MARINE ENGINE
ANODE

RELIANCE PRODUCTS - 100% MANUFACTURED IN NORTH AMERICA

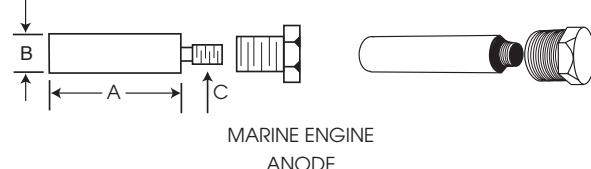


Reliance Engine Anodes consist of a brass plug with anode attached

PLEASURE CRAFT CATERPILLAR ENGINE ANODES

TYPE NUMBER	ZINC ANODES NOM. WEIGHT lbs. (kg)	NOMINAL DIMENSIONS					C-PLUG THREAD INT.
		A-LENGTH in (mm)	B-DIAMETER in (mm)	PLUG OD (NPT) in (mm)	C-PLUG THREAD INT.		
CATERPILLAR ENGINE ANODES COMPLETE WITH BRASS PLUG							
CAT 6L 2016	0.10 (0.045)	3/4 (19)	3/4 (19)	3/4 (19)	3/4 (19)	1/2-13 UNC	
CAT 6L 2280	0.08 (0.036)	1-5/8 (41)	1/2 (13)	3/8 (10)	3/8-16 UNC		
CAT 6L 2281	0.14 (0.064)	1-1/2 (38)	1/2 (13)	3/8 (10)	3/8-16 UNC		
CAT 6L 2283	0.08 (0.036)	2-1/2 (64)	3/8 (10)	1/4 (6)	5/16-18 UNC		
CAT 6L 2284	1.78 (0.807)	2-15/16 (59)	1-1/4 (32)	1-1/4 (32)	3/4-10 UNC		
CAT 6L 2285	0.98 (0.445)	2-15/16 (59)	1-1/4 (32)	1-1/4 (32)	3/4-10 UNC		
CAT 6L 2288	0.16 (0.010)	2-0 (50)	5/8 (16)	1/2 (13)	7/16-14 UNC		
CAT 6L 2289	0.26 (0.118)	3 (76)	5/8 (16)	1/2 (13)	7/16-14 UNC		
CAT 6L 3104	0.06 (0.027)	1-1/2 (38)	3/8 (10)		1/4-20 UNC		
REPLACEMENT ANODES - BRASS PLUG NOT INCLUDED							
CAT 6L 2016Z	0.10 (0.045)	3/4 (19)	3/4 (19)	3/4 (19)	1/2-13 UNC		
CAT 6L 2280Z	0.08 (0.036)	1-5/8 (41)	1/2 (13)	3/8 (10)	3/8-16 UNC		
CAT 6L 2281Z	0.09 (0.041)	1-1/2 (38)	1/2 (13)	3/8 (10)	3/8-16 UNC		
CAT 6L 2283Z	0.08 (0.036)	2-1/2 (64)	3/8 (10)	1/4 (6)	5/16-18 UNC		
CAT 6L 2284Z	0.98 (0.440)	2-15/16 (59)	1-1/4 (32)	1-1/4 (32)	3/4-10 UNC		
CAT 6L 2285Z	0.90 (0.409)	2-15/16 (59)	1-1/4 (32)	1-1/4 (32)	3/4-10 UNC		
CAT 6L 2288Z	0.16 (0.010)	2-0 (50)	5/8 (16)	1/2 (13)	7/16-14 UNC		
CAT 6L 2289Z	0.15 (0.068)	3 (76)	5/8 (16)	1/2 (13)	7/16-14 UNC		
CAT 6L 3104Z	0.06 (0.027)	1-1/2 (38)	3/8 (10)		1/4-20 UNC		

CATERPILLAR ENGINE ANODES COMPLETE WITH BRASS PLUG	
TYPE NUMBER	NPT UNC
CAT 6L 2279	3/8 3/8-16
CAT 6L 2282	1/4 5/16-18
CAT 5B 9169	1/2 7/16-14



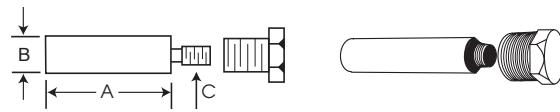
MARINE ENGINE
ANODE

DETROIT DIESEL ENGINE ZINC ANODE (ZINC ONLY)

TYPE NUMBER	ZINC ANODES NOM. WEIGHT lbs. (kg)	NOMINAL DIMENSIONS					C-PLUG THREAD INT.
		A-LENGTH in (mm)	B-DIAMETER in (mm)	PLUG OD (NPT) in (mm)	C-PLUG THREAD INT.		
MD-8515840Z	0.25 (0.11)	2-1/8 (54)	3/4 (19)	3/4 (19)	1/2-13 UNC		
MD-8515850Z	0.38 (0.17)	3-3/8 (86)	3/4 (19)	3/4 (19)	1/2-13 UNC		
MD-8517479Z	0.16 (0.07)	2-0 (50)	5/8 (16)	1/2 (13)	7/16-14 UNC		
MD-8925832Z	0.08 (0.036)	1-1/2 (38)	1/2 (13)	3/8 (10)	3/8-16 UNC		

DETROIT DIESEL ENGINE ZINC ANODE - COMPLETE WITH BRASS PLUG

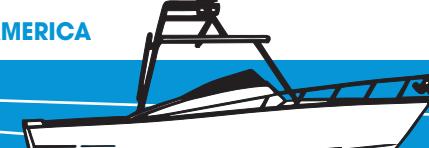
TYPE NUMBER	ZINC ANODES NOM. WEIGHT lbs. (kg)	NOMINAL DIMENSIONS					C-PLUG THREAD INT.
		A-LENGTH in (mm)	B-DIAMETER in (mm)	PLUG OD (NPT) in (mm)	C-PLUG THREAD INT.		
MD-8515840Z	0.53 (0.24)	2-1/8 (54)	3/4 (19)	3/4 (19)	1/2-13 UNC		
MD-8515850Z	0.53 (0.24)	3-3/8 (86)	3/4 (19)	3/4 (19)	1/2-13 UNC		
MD-8517479Z	0.30 (0.14)	2-0 (50)	5/8 (16)	1/2 (13)	7/16-14 UNC		
MD-8925832Z	0.25 (0.11)	1-1/2 (38)	1/2 (13)	3/8 (10)	3/8-16 UNC		



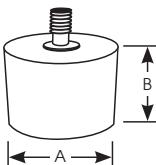
RELIANCE PRODUCTS - 100% MANUFACTURED IN NORTH AMERICA

reliance

Pleasure Craft
Anodes



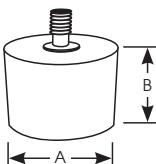
GALVION ZINC ANODES

**MD-ZDM-500**

	A - DIAMETER IN (MM)	B - LENGTH IN (MM)	INT THREAD	BRASS PLUG NPT IN (MM)	WEIGHT LBS (KGS)
MD-ZDM-500	0.50 (13.0)	0.75 (19)	12 - 28	.375 (10)	0.04 (0.020)

**MD-ZDM-500 BRASS PLUG**

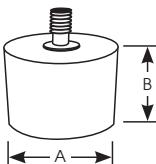
	NPT IN (MM)	WRENCH SIZE IN (MM)	INT THREAD	WEIGHT LBS (KGS)
MD-ZDM-500 BRASS PLUG	3/8" (10)	3/4" (19)	12 - 28	0.08 (0.036)

3/8" NPT Brass Plug for MD-ZDM-500**MD-ZDM-625**

	A - DIAMETER IN (MM)	B - LENGTH IN (MM)	INT THREAD	BRASS PLUG NPT IN (MM)	WEIGHT LBS (KGS)
MD-ZDM-625	0.625 (17)	0.75 (19)	12 - 28	.500 (13)	0.057 (0.02)

**MD-ZDM-625 BRASS PLUG**

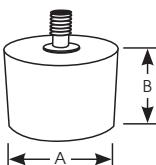
	NPT IN (MM)	WRENCH SIZE IN (MM)	INT THREAD	WEIGHT LBS (KGS)
MD-ZDM-625 BRASS PLUG	0.500 (13)	1.00 (25)	12 - 28	0.57 (0.020)

3/8" NPT Brass Plug for MD-ZDM-625**MD-ZDM-825**

	A - DIAMETER IN (MM)	B - LENGTH IN (MM)	INT THREAD	BRASS PLUG NPT IN (MM)	WEIGHT LBS (KGS)
MD-ZDM-825	0.82 (21)	0.75 (19)	12 - 28	0.75 (19)	0.10 (0.04)

**MD-ZDM-825 BRASS PLUG**

	NPT IN (MM)	WRENCH SIZE IN (MM)	INT THREAD	WEIGHT LBS (KGS)
MD-ZDM-825 BRASS PLUG	3/4 (19)	1-1/4 (21)	12 - 28	0.34 (0.14)

3/8" NPT Brass Plug for MD-ZDM-825**MD-ZDM-1050**

	A - DIAMETER IN (MM)	B - LENGTH IN (MM)	INT THREAD	BRASS PLUG NPT IN (MM)	WEIGHT LBS (KGS)
MD-ZDM-1050	0.82 (21)	0.75 (19)	12 - 28	1.0 (25)	0.17 (0.048)

**MD-ZDM-1050 BRASS PLUG**

	NPT IN (MM)	WRENCH SIZE IN (MM)	INT THREAD	WEIGHT LBS (KGS)
MD-ZDM-1050 BRASS PLUG	1.0 (25)	1-1/2 (38)	12 - 28	0.44 (0.195)

3/8" NPT Brass Plug for MD-ZDM-1050

ZINC FOR SALT WATER

ALUMINUM FOR SALT AND BRACKISH WATER

Marine Engine Anodes

Reliance Engine Anodes consist of a brass plug with anode attached

VOLVO PENTA DIESEL ENGINE ZINC ANODES

ZINC ANODES		NOM. WEIGHT	NOMINAL DIMENSIONS					
TYPE NUMBER	lbs.	(kg)	A-LENGTH	B-DIAMETER	PLUG OD (NPT)	C-PLUG		
MD-83829	0.09	(0.041)	1-3/4 (44)	11/16 (17)	-	-	M8	
MD-823661	0.32	(0.145)	1-3/4 (44)	1-0 (26)	-	-	3/8-16 UNC	
MD-3858995	0.14	(0.060)	1-1/2 (38)	1/2 (13)	-	-	3/8-16 UNC	



MD-838929



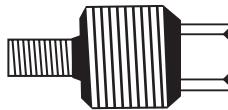
MD-823661



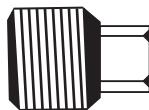
MD-3858995

PLUGS FOR VOLVO PENTA DIESEL ENGINE ZINC ANODES

ZINC ANODES		NOM. WEIGHT	NOMINAL DIMENSIONS						WRENCH
TYPE NUMBER	lbs.	(kg)	SIZE	B-DIAMETER	PLUG OD (NPT)	C-PLUG			
MALE PLUG FOR MD-83829	0.09	(0.041)	1/2" NPT		STUD THREAD M8				13MM
FEMALE PLUG FOR MD-823661	0.32	(0.145)	1/2" NPT		INTERNAL THREAD 7/16" UNC				13MM
BRASS PLUG FOR MD-3858995	0.14	(0.060)	1" NPT		INTERNAL THREAD 3/8" UNC				3/4 IN



MALE PLUG FOR MD-838929



FEMALE PLUG FOR MD-838929



BRASS PLUG FOR MD-823661



ZF TRANSMISSION ZINC ANODES

ZINC ANODES		NOM. WEIGHT	NOMINAL DIMENSIONS						C-PLUG
TYPE NUMBER	lbs.	(kg)	A-LENGTH	B-DIAMETER	PLUG OD (NPT)	THREAD INT.			
3217307021-01	0.21	(0.095)	3/4 (20)	5/8 (15)	-	-	-	-	5/16-18 UNC
3217108021	0.16	(0.010)	2-1/2 (64)	5/8 (15)	-	-	-	-	5/16-18 UNC
BRASS PLUG FOR 3217307021-01 AND 3217108021			-	-	-	-	-	-	5/16-18 UNC



3217307021-01



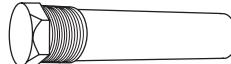
ZF-3217108021



BRASS PLUG FOR ZF TRANSMISSION

MASE MARINE GENERATORS ZINC ANODE (WITH BRASS PLUG)

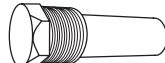
ZINC ANODES		NOM. WEIGHT	NOMINAL DIMENSIONS						C-PLUG
TYPE NUMBER	lbs.	(kg)	A-LENGTH	B-DIAMETER	PLUG OD (NPT)	THREAD INT.			
MD-801062	0.07	(0.030)	3/4 (19)	3/8 (10)	1/4 (6)	5/16-18 UNC			



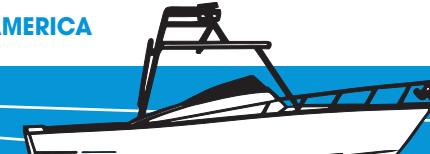
MD-801062

NANNI ENGINE ZINC ANODE (WITH BRASS PLUG)

ZINC ANODES		NOM. WEIGHT	NOMINAL DIMENSIONS						C-PLUG
TYPE NUMBER	lbs.	(kg)	A-LENGTH	B-DIAMETER	PLUG OD (NPT)	THREAD INT.			
MD-N494635	0.88	(0.0040)	5/8 (17)	3/8 (10)	-	-	-	-	5/8-11 UNC



MD-N494635

reliancePleasure Craft
Anodes

RELIANCE PRODUCTS - 100% MANUFACTURED IN NORTH AMERICA

Marine Engine Anodes

Reliance Engine Anodes consist of a brass plug with anode attached

YANMAR ENGINE ANODES COMPLETE WITH BRASS PLUG

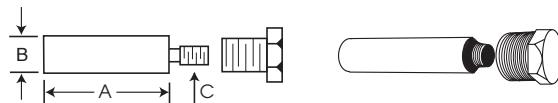
YANMAR ANODES COMPLETE WITH BRASS PLUG

ZINC ANODES		NOM. WEIGHT	NOMINAL DIMENSIONS				C-PLUG
TYPE NUMBER	Lbs. (kg)		A-LENGTH in (mm)	B-DIAMETER in (mm)	PLUG OD (NPT) in (mm)	C-PLUG	
YANMAR 119574-18790	0.18 (0.073)		2 (50)	5/8 (16)	1/2 (13)	7/16-14 UNC	
YANMAR 119574-44150	0.13 (0.059)		1-1/4 (30)	1/2 (13)	3/8 (10)	11/16 UNC	
* YANMAR 120650-13420	0.25 (0.095)		3/4 (20)	5/8 (16)		THREAD: M8	
YANMAR 272100-200200	0.12 (0.050)		3/4 (20)	3/4 (20)		THREAD: M8	
YANMAR 272100-200300	0.19 (0.073)		1-1/4 (30)	3/4 (20)		THREAD: M8	
YANMAR 272100-200370	0.17 (0.070)		1-1/2 (37)	3/4 (20)		THREAD: M8	
YANMAR 272100-200550	0.35 (0.150)		2-11/16 (55)	3/4 (20)		THREAD: M8	

* Copper Sealing Washer Included

YANMAR ANODES ZINC ONLY - BRASS PLUG NOT INCLUDED

ZINC ANODES		NOM. WEIGHT	NOMINAL DIMENSIONS				C-PLUG
TYPE NUMBER	Lbs. (kg)		A-LENGTH in (mm)	B-DIAMETER in (mm)	PLUG OD (NPT) in (mm)	C-PLUG	
YANMAR 119574-18790	0.16 (0.073)		2 (50)	5/8 (16)	1/2 (13)	7/16-14 UNC	
YANMAR 119574-44150	0.13 (0.059)		1-1/4 (30)	1/2 (13)	3/8 (10)	11/16 UNC	
YANMAR 120650-13420	0.21 (0.095)		3/4 (20)	5/8 (16)		THREAD: M8	
YANMAR 272100-200200	0.11 (0.050)		3/4 (20)	3/4 (20)		THREAD: M8	
YANMAR 272100-200300	0.16 (0.073)		1-1/4 (30)	3/4 (20)		THREAD: M8	
YANMAR 272100-200370	0.15 (0.070)		1-1/2 (37)	3/4 (20)		THREAD: M8	
YANMAR 272100-200550	0.33 (0.150)		2-11/16 (55)	3/4 (20)		THREAD: M8	



ZINC FOR SALT WATER

ALUMINUM FOR SALT AND BRACKISH WATER

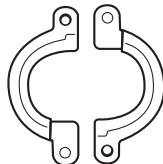
Pleasure Craft Yanmar Anodes

BOLT ON

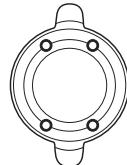
PLEASURE CRAFT YANMAR

ZINC ANODES		NOM. WEIGHT lbs. (kg)	ALUMINUM ANODES		NOM. WEIGHT lbs. (kg)	LENGTH in (mm)
TYPE NUMBER			TYPE NUMBER			
YANMAR						
YANMAR 196420-02652	1.88 (0.855)		N/A		5.8 (148)	
YANMAR 196440-02660	1.60 (0.727)		YANMAR 196440-02660A (196450-02500)	1.88 (0.855)	4.0 (102)	

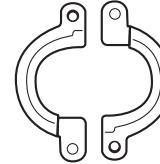
YANMAR
SAILDRIVE
196440-02660



YANMAR
196420-02652



196440-02660A
YANMAR
SAILDRIVE
ALUMINUM
(196450-02500)



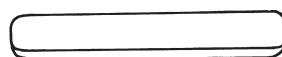
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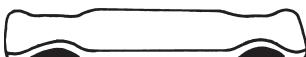
Reliance Anodes for Keel Coolers are designed to provide maximum protection to your fresh water cooling system, by protecting the heat exchanger from salt water galvanic corrosion.

KEEL COOLER ANODES

TYPE NUMBER	NOM. WEIGHT lbs. (kg)	ALUMINUM ANODES		NOMINAL DIMENSIONS			
		TYPE NUMBER	NOM. WEIGHT lbs. (kg)	A-LENGTH in (mm)	B-WIDTH in (mm)		
KK-1	1.10 (0.500)	AKK-1	0.40 (0.182)	2-5/8 (67)	2-3/4 (70)		
KK-2	1.25 (0.568)	AKK-2	0.48 (0.218)	2-3/4 (70)	3-1/4 (83)		
KK-3	3.25 (1.477)	AKK-3	1.18 (0.536)	3-7/8 (98)	3-1/2 (89)		
X-45-3	0.25 (0.114)	AX-45-3	0.09 (0.041)	3-1/4 (83)	3-7/8 (98)		
X-47-3	0.75 (0.341)	AX-47-3	0.29 (0.132)	6-3/4 (171)	1-1/4 (32)		
X-58	0.75 (0.341)	AX-58	0.27 (0.123)	6-3/8 (162)	1 (25)		



MODEL X-58



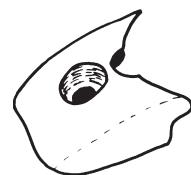
MODEL X-47-3



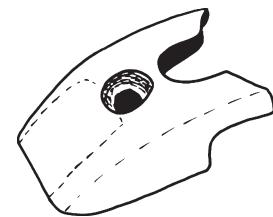
MODEL X-45-3



MODEL KK-1



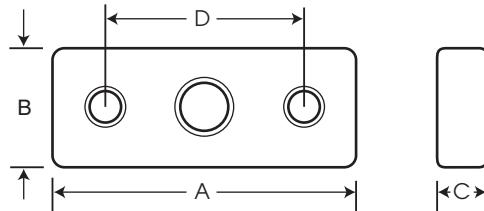
MODEL KK-2



MODEL KK-3

FERNSTRUM KEEL COOLER ANODES

TYPE NUMBER	NOM. WEIGHT lbs. (kg)	ALUMINUM ANODES		NOMINAL DIMENSIONS				
		TYPE NUMBER	NOM. WEIGHT lbs. (kg)	A-LENGTH IN (MM)	B-WIDTH IN (MM)	C-THICKNESS IN (MM)	D-HOLE DISTANCE IN (MM)	HOLE DIAMETER IN (MM)
MD-1274A	2.20 (1.00)	AMD-1274A	0.88 (0.40)	5.00 (127)	2.00 (50)	1-1/16 (30)	3-1/4 c/c (44) c/c	7/16 (11)
MD-1874A	3.40 (1.54)	AMD-1874A	1.36 (0.62)	7.00 (177)	2.00 (50)	1-1/16 (30)	3-1/4 c/c (44) c/c	9/16 (14)
MD-2624A	1.50 (0.68)	AMD-2624A	0.60 (0.27)	5.00 (127)	2.00 (50)	13/16 (10)	3-1/4 c/c (44) c/c	9/16 (14)
MD-2874A	4.20 (1.91)	AMD-2874A	1.68 (0.76)	8.813 (1.823)	2.00 (50)	1-1/16 (30)	4 c/c (101) c/c	9/16 (14)



RELIANCE PRODUCTS - 100% MANUFACTURED IN NORTH AMERICA

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Pleasure Craft
Anodes



ZINC FOR SALT WATER
ALUMINUM FOR SALT
AND BRACKISH WATER

Anodes For Suzuki & Nissan/Tohatsu

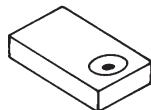
These Reliance Outdrive Anodes are direct replacement components for Suzuki and Nissan/Tohatsu engines and meet specifications of anodes on original equipment.

PLEASURE CRAFT ANODES FOR SUZUKI OUTDRIVES

ZINC ANODES		ALUMINUM ANODES		HORSEPOWER	THREAD SIZE
TYPE NUMBER	NOM. WEIGHT lbs. (kg)	TYPE NUMBER	NOM. WEIGHT lbs. (kg)		
MD55321-87J00	.04 (.09)	AMD55321-87J00	.02 (.01)		1/4-20 UNC
MD55320-95310	.18 (.08)	AMD55320-95310	.18 (.08)	55-140	
MD55125-96310	.27 (.12)	AMD55125-9630	.27 (.12)	20-30	
MD55125-87D00	.75 (.34)	AMD55125-87D00	.75 (.34)	150-200	M10 x 1.25
MD55321-94900	1.77 (.80)	N/A	N/A		



MD-55321-87J00



MD-55320-95310



MD-55125-87D00



MD-55125-96310



MD-3C7602181

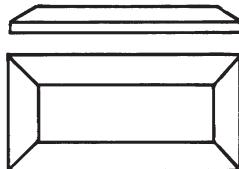
PLEASURE CRAFT ANODES FOR NISSAN/TOHATSU OUTDRIVES

ZINC ANODES		ALUMINUM ANODES		HORSEPOWER
TYPE NUMBER	NOM. WEIGHT lbs. (kg)	TYPE NUMBER	NOM. WEIGHT lbs. (kg)	
MD3C7602181	1.77 (0.805)	N/A	N/A	

Pleasure Craft Zinc Plates

ZINC & ALUMINUM PLATES WITH OR WITHOUT BONDING WIRE

ZINC ANODES		ALUMINUM ANODES		NOMINAL DIMENSIONS	DESCRIPTION
TYPE NUMBER	NOM. WEIGHT lbs. (kg)	TYPE NUMBER	NOM. WEIGHT lbs. (kg)		
ZPWW-M	1.70 (0.773)	APWW-M	0.66 (0.300)	4-1/2 x 2-1/2 x 11/16	WITH BONDING WIRE
ZPNW-M	1.70 (0.773)	APNW-M	0.66 (0.300)	4-1/2 x 2-1/2 x 11/16	NO BONDING WIRE
ZPWW-N	3.10 (1.409)	APWW-N	1.21 (0.550)	6 x 3 x 3/4	WITH BONDING WIRE
ZPNW-N	3.10 (1.409)	APNW-N	1.21 (0.550)	6 x 3 x 3/4	NO BONDING WIRE
ZPWW-O	3.90 (1.773)	APWW-O	1.52 (0.691)	6 x 4 x 3/4	WITH BONDING WIRE
ZPNW-O	3.90 (1.773)	APNW-O	1.52 (0.691)	6 x 4 x 3/4	NO BONDING WIRE
ZPWW-P	8.30 (3.773)	APWW-P	3.24 (1.473)	9 x 5 x 13/16	WITH BONDING WIRE
ZPNW-P	8.30 (3.773)	APNW-P	3.24 (1.473)	9 x 5 x 13/16	NO BONDING WIRE



BONDING WIRE
6" ON ONE END
12" ON OTHER END

RELIANCE PRODUCTS - 100% MANUFACTURED IN NORTH AMERICA



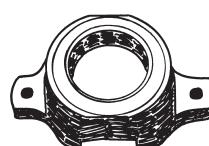
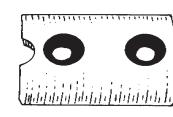
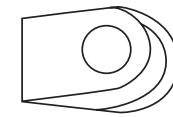
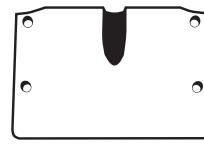
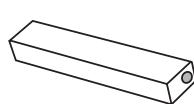
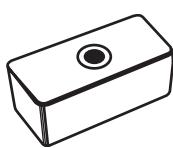
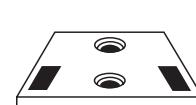
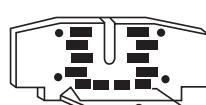
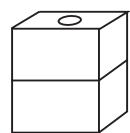
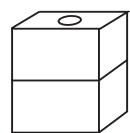
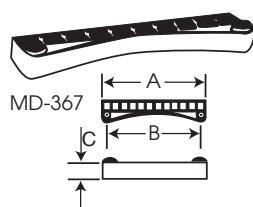
ZINC FOR SALT WATER
ALUMINUM FOR SALT
AND BRACKISH WATER

Anodes for BRP™ (OMC/Johnson Evinrude)

These Reliance Outdrive Anodes are direct replacement components for OMC engines and meet specifications of anodes on original equipment.

PLEASURE CRAFT ANODES FOR BRP™ (OMC/JOHNSON EVINRUDE)

ZINC ANODES		ALUMINUM ANODES		NOMINAL DIMENSIONS	
TYPE NUMBER	NOM. WEIGHT lbs. (kg)	TYPE NUMBER	NOM. WEIGHT lbs. (kg)	DIMENSION in	THREAD SIZE
MD-5031705	0.04 (0.090)	AMD-5031705	0.02 (0.010)	3/4	1/4-20 UNC
MD-367	0.97 (0.441)	AMD-367	0.38 (0.173)	7-5/8	
MD-123009	0.15 (0.068)	AMD-123009	0.06 (0.027)	(Threaded)	10-24 UNC
MD-327606	0.15 (0.068)	AMD-327606	0.06 (0.027)	(Unthreaded)	
MD-393023	0.44 (0.200)	AMD-393023	0.17 (0.077)	1-1/2	
MD-398331	0.71 (0.323)	AMD-398331	0.28 (0.127)	2-1/4	
MD-392462	1.33 (0.605)	AMD-392462	0.52 (0.236)	-	
MD-980756	2.00 (0.909)	AMD-980756	0.78 (0.355)	-	
MD-982277	1.67 (0.759)	AMD-982277	0.65 (0.295)	-	
MD-982438	2.18 (0.991)	AMD-982438	0.85 (0.386)	-	
MD-392123	1.67 (0.759)	AMD-392123	0.65 (0.295)	-	
MD-984513	1.99 (0.905)	AMD-984513	0.78 (0.355)	COBRA	1/4-20 UNC
MD-984547	2.04 (0.927)	AMD-984547	0.8 (0.364)	COBRA	
MD-983952	2.44 (1.109)	AMD-983952	0.95 (0.432)	COBRA	
MD-983494	1.41 (0.641)	AMD-983494	0.55 (0.250)	COBRA	1/4-20 UNC
MD-397768	0.65 (0.295)	AMD-397768	0.25 (0.114)	-	
MD-395780	0.75 (0.341)	AMD-395780	0.29 (0.132)	-	
MD-C983191	2.00 (0.909)	AMD-C983191	0.78 (0.355)	SEA DRIVE	
MD-C389999	0.40 (0.182)	AMD-C389999	0.16 (0.073)	SAIL DRIVE	1/4-20 UNC
MD-431708	0.67 (0.305)	AMD-431708	0.26 (0.118)	-	
MD-398873	0.33 (0.150)	AMD-398873	0.13 (0.059)	-	
MD-433580	1.59 (0.723)	AMD-433580	0.61 (0.277)	-	5/16 - 18 UNC



MD-398873

RELIANCE PRODUCTS - 100% MANUFACTURED IN NORTH AMERICA

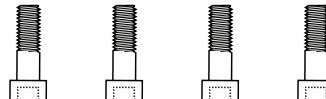
reliance

Pleasure Craft
Anodes

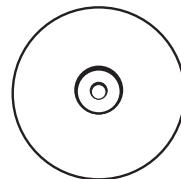
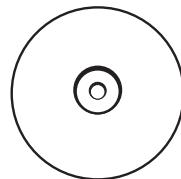


BNT - 1 BENNET TRIM TAB ZINC ANODE KIT (2 PER KIT) - ZINC ALUMINUM

BNT-1	.44 lbs. (.200 kg)	3 3/4 (95mm) x 1 1/8 (29mm) x 1/2 (13mm)	1 1/2 (38mm) c/c	BNT Hardware	1/4-20 UNC x 1 1/4
ABNT-1	.19 lbs. (.086 kg)	3 3/4 (95mm) x 1 1/8 (29mm) x 1/2 (13mm)	1 1/2 (38mm) c/c	BNT Hardware	1/4-20 UNC x 1 1/4

**FF-2 PROP HUB ANODE KIT (2 PER KIT)**

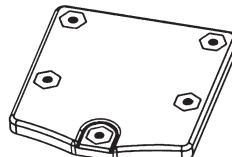
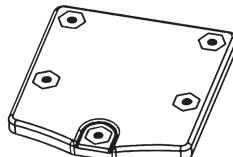
ZINC ANODES		ALUMINUM ANODES	
TYPE NUMBER	NOM. WEIGHT lbs. (kg)	TYPE NUMBER	NOM. WEIGHT lbs. (kg)
MD-FF-2 PROP	1.00 (0.45)	AMD-FF-2 PROP	0.45 (0.20)



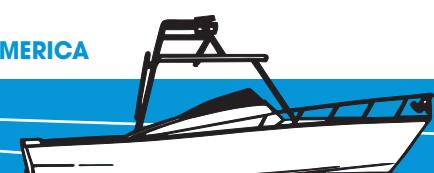
MD-FF-2 PROP

ZEUS POD TRIM TAB KIT - 879150A65 - (2 PER KIT)

ZINC ANODE		ALUMINUM ANODE	
Height	6-1/4" (160mm)	Height	6-1/4" (160mm)
Width	5-3/4" (145mm)	Width	5-3/4" (145mm)
Thickness	1/2" (13mm)	Thickness	1/2" (13mm)
Weight	4.6 lbs (2.09kg)	Weight	2 lbs (0.91kg)



RELIANCE PRODUCTS - 100% MANUFACTURED IN NORTH AMERICA



ZINC FOR SALT WATER

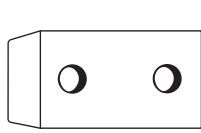
ALUMINUM FOR SALT AND BRACKISH WATER

Anodes For Yamaha Outdrives

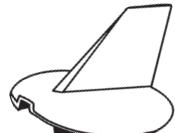
These Reliance Outdrive Anodes are direct replacement components for Yamaha engines and meet specifications of anodes on original equipment.

PLEASURE CRAFT ANODES FOR YAMAHA OUTDRIVES

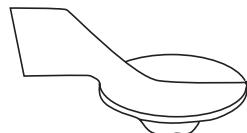
ZINC ANODES		ALUMINUM ANODES		NOM. WEIGHT	HORSEPOWER	THREAD SIZE
TYPE NUMBER	NOM. WEIGHT lbs. (kg)	TYPE NUMBER	NOM. WEIGHT lbs. (kg)			
MD-6E5-45251-00	0.30 (0.136)	AMD-6E5-45251-00	0.12 (0.055)		115-120	M10 x 1.25
MD-6K1-45371-00	0.89 (0.405)	AMD-6K1-45371-00	0.35 (0.159)		90-200	M10 x 1.25
MD-6E5-45371-01	0.94 (0.427)	AMD-6E5-45371-01	0.37 (0.168)		90-200	
MD-688-45371-02	0.95 (0.432)	AMD-688-45371-02	0.37 (0.168)		40-90	M10 x 1.25
MD-6J9-45371-00	1.07 (0.486)	AMD-6J9-45371-00	0.42 (0.191)		150-200	M10 x 1.25
MD-688-45251-01	0.07 (0.032)	AMD-688-45251-01	0.03 (0.014)		40-90	
MD-664-45371-01	0.48 (0.218)	AMD-664-45371-01	0.19 (0.086)		20-50	
MD-6H1-45251-02	1.05 (0.477)	AMD-6H1-45251-02	0.49 (0.223)		40-90	
MD-6G5-45251-01	1.95 (0.886)	AMD-6G5-45251-01	0.75 (0.341)		115-300	
MD-6E0-45251-11	0.20 (0.091)	AMD-6E0-45251-11	0.08 (0.036)			M6 x 1.00
MD-61N-45251-01	0.60 (0.273)	AMD-61N-45251-01	0.23 (0.105)		8-25	
MD-61A-45371-00	1.45 (0.659)	AMD-61A-45371-00	0.57 (0.259)		200-250	M10 x 1.25
MD-6AW-45251-00	1.46 (0.660)	AMD-6AW-45251-00	0.56 (0.250)		200-350	



MD-6E5-45251-00



MD-6K1-45371-00
MD-6E5-45371-01



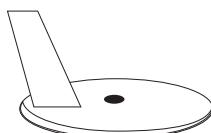
MD-688-45371-02



MD-6J9-45371-00



MD-688-45251-01



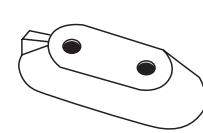
MD-664-45371-01



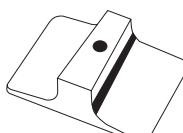
MD-6H1-45251-02



MD-6G5-45251-01



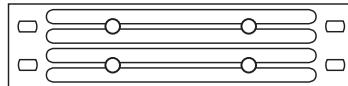
MD-6E0-45251-11



MD-61N-45251-01



MD-61A-45371-00



MD-6AW-45251-00

Yamaha Kits

AVAILABLE IN ZINC & ALUMINUM

YAMAHA OUTDRIVES KITS

MDY150KIT

- 1 - MD-6G545251-01
- 1 - MD-6J945371-00

Fits Yamaha 150-200 HP Outboards



MDY150CRKIT

- 1 - MD-6G545251-01
- 1 - MD-6K145371-00

Fits Yamaha 150-200 HP Outboards (Counter Rotation)



MDY200250KIT

- 1 - MD-6G545251-01
- 1 - MD-61A45371-00

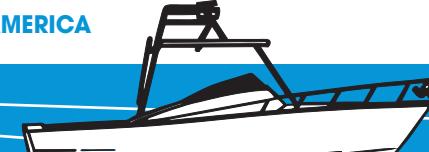
Fits Yamaha 200-250 HP Outboards



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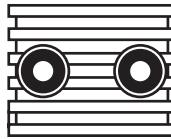
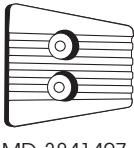
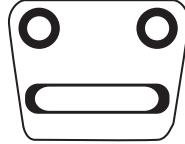
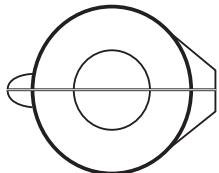
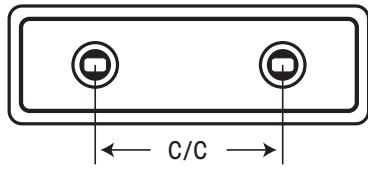
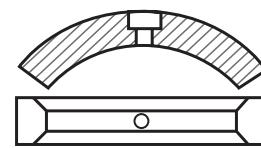
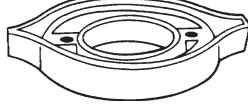
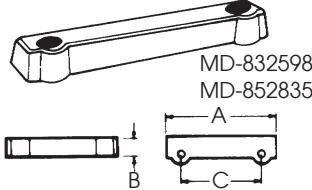
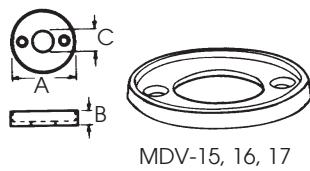
reliance

Pleasure Craft
Anodes

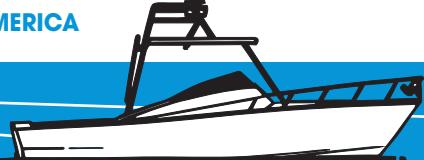


PLEASURE CRAFT ANODES FOR VOLVO OUTDRIVES

ZINC ANODES		ALUMINUM ANODES		ENGINE MODEL	NOMINAL DIMENSIONS		
TYPE NUMBER	NOM. WEIGHT lbs. (kg)	TYPE NUMBER	NOM. WEIGHT lbs. (kg)		A - LENGTH in (mm)	B - WIDTH in (mm)	C - DEPTH in (mm)
MDV-15	0.36 (0.164)	AMDV-15	0.14 (0.064)	100	3-7/8 (98)	7/16 (11)	2-0 (51)
MDV-16	0.43 (0.195)	AMDV-16	0.17 (0.077)	200	4-1/8 (105)	3/8 (10)	2-1/4 (57)
MDV-17	0.63 (0.286)	AMDV-17	0.25 (0.114)	250-270	4-1/2 (114)	3/8 (10)	2-1/4 (57)
MDV-18	1.56 (1.540)	AMDV-18	0.61 (0.277)	280-290	4-3/4 (121)	1-3/8 (35)	2-3/8 (60)
MD-358407	3.54 (0.145)	AMD-358407	1.30 (0.590)	—	4 (102)	1-3/4 (44)	- -
MD-823661	0.32 (0.145)	AMD-823661	0.13 (0.059)	Diesel	- -	- -	- -
MD-832598	1.88 (0.855)	AMD-832598	0.73 (0.332)	250-270	7-3/8 (187)	7/8 (22)	5-3/4 (146)
MD-851983	1.11 (0.505)	AMD-851983	0.43 (0.195)	120F Sail Drive	3-3/4 (95)	1-1/16 (27)	3-11/16 (94)
MD-852835	1.67 (0.759)	AMD-852835	0.65 (0.295)	290	5-1/4 (132)	1-0 (25)	3-3/8 (86)
MD-875812	1.42 (0.645)	AMD-875812	0.55 (0.250)	Sail Drive	4-1/4 (108)	1-3/4 (44)	2-1/8 (54)
MD-875821	1.29 (0.586)	AMD-875821	0.50 (0.227)	290	4-3/8 (111)	1-3/8 (35)	3-3/8 (86)
MD-838929	0.09 (0.041)	AMD-838929	0.04 (0.018)	—	2 (50)	1-1/4 (32)	- -
MD-3588745	1.90 (0.860)	AMD-3588745	0.83 (0.380)	Engine Anode	4-1/2 (114)	1-1/4 (32)	3-3/8 (86)
MD-3593881	1.60 (0.727)	AMD-3593881	0.64 (0.291)	—	2 (50)	2-3/4 (70)	- -
MD-3841427	2.40 (1.090)	AMD-3841427	1.04 (0.470)	—	3-3/4 (95)	3 1/2 (89)	1-3/16 (30)
MD-3854130	2.42 (1.100)	AMD-3854130	0.95 (0.432)	—	3.7 (94)	3.7 (94)	1.5 (38)
MD-3855411	2.33 (1.059)	AMD-3855411	0.90 (0.409)	—	- -	- -	- -
MD-3863206	1.57 (0.710)	AMD-3863206	0.77 (0.350)	—	5-1/4 (132)	3.1 (78)	1-3/8 (35)
MD-3858399	0.60 (0.270)	AMD-3858399	0.30 (0.140)	—	- -	- -	- -
MD-3883728	2.89 (1.310)	AMD-3883728	1.10 (0.500)	—	6 (153)	3-1/2 (89)	1.1 (27)
MD-872139	1.43 (0.650)	AMD-872139	0.63 (0.286)	—	5-1/4 (132)	1-3/4 (44)	1-1/8 (29)
MD-873395	0.80 (0.360)	AMD-873395	0.28 (0.130)	—	2 (51)	1-5/8 (41)	1-1/4 (32)
MD-872793	0.22 (0.100)	AMD-872793	0.09 (0.041)	—	5-1/4 (132)	1-3/4 (44)	1-1/8 (29)
MD-21174476	13.50 (6.140)	AMD-21174476	5.00 (2.270)	—	16-1/2 (413)	3-7/8 (66)	0.40 (10)
MD-40005206	12.00 (5.440)	AMD-40005206	5.00 (2.270)	—	14 (356)	3.32 (80)	1.18 (80)
MD-40005875	8.00 (6.120)	AMD-40005875	3.40 (1.550)	—	10-1/2 (266)	3.32 (80)	1.18 (80)



RELIANCE PRODUCTS - 100% MANUFACTURED IN NORTH AMERICA



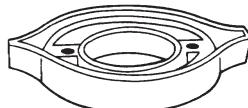
ZINC FOR SALT WATER
ALUMINUM FOR SALT AND BRACKISH WATER

Volvo Anode Kits

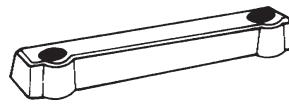
AVAILABLE IN ZINC & ALUMINUM

VOLVO PENTA 280 ANODE KIT

- 1 - MDV-18 (875815-3)
- 1 - MD-832598



MDV-18

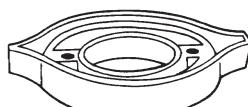


MD-832598

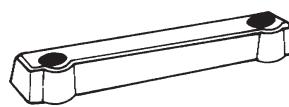
HARDWARE INCLUDED

VOLVO PENTA 280 DUO PROP ANODE KIT

- 1 - MD-875821
- 1 - MD-832598



MD-875821



MD-832598

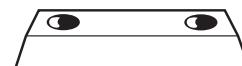
HARDWARE INCLUDED

VOLVO PENTA 290 ANODE KIT

- 1 - MDV-18 (875815-3)
- 1 - MD-852835



MDV-18

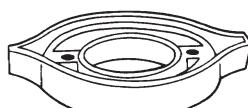


MD-852835

HARDWARE INCLUDED

VOLVO PENTA 290 DUO PROP ANODE KIT

- 1 - MD-875821
- 1 - MD-852835



MD-875821

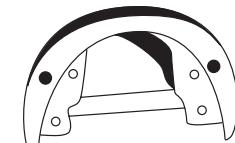


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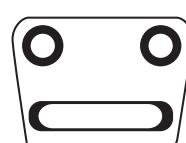
HARDWARE INCLUDED

VOLVO PENTA SX ANODE KIT

- 1 - MD-3855411
- 1 - MD-3854130



MD-3855411
1/4-20 UNC

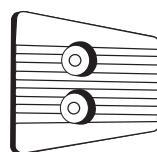


MD-3854130

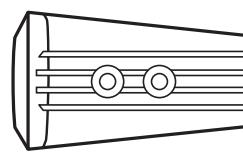
HARDWARE INCLUDED

VOLVO SX-A/DPS

- 1 - MD-3841427
- 1 - MD-3883728



MD-3841427



MD-3883728

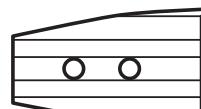
NO HARDWARE

VOLVO DPH ENGINE

- 1 - MD-3588745
- 1 - MD-3863206



MD-3588745



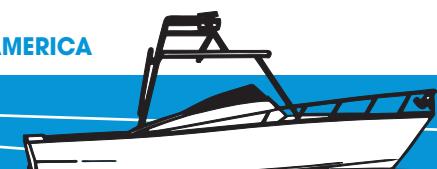
MD-3863206

NO HARDWARE

RELIANCE PRODUCTS - 100% MANUFACTURED IN NORTH AMERICA

reliance

Pleasure Craft
Anodes



ZINC FOR SALT WATER

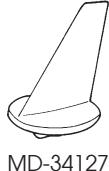
ALUMINUM FOR SALT AND BRACKISH WATER

Anodes For Mercury Outdrives

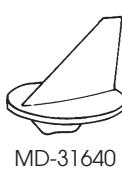
These Reliance Outdrive Anodes are direct replacement components for Mercury and Volvo engines and meet or exceed the specifications of anodes on original equipment.

PLEASURE CRAFT ANODES FOR MERCURY OUTDRIVES

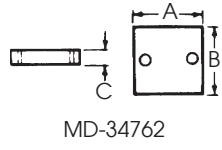
ZINC ANODES		ALUMINUM ANODES		THREAD SIZE
TYPE NUMBER	NOM. WEIGHT lbs. (kg)	TYPE NUMBER	NOM. WEIGHT lbs. (kg)	
MD-31640	1.05 (0.477)	AMD-31640	0.41 (0.186)	7/16-14 UNC
MD-34127	1.29 (0.586)	AMD-34127	0.50 (0.227)	7/16-14 UNC
MD-34762	0.52 (0.236)	AMD-34762	0.20 (0.091)	
MD-46399	0.82 (0.373)	AMD-46399	0.32 (0.145)	7/16-14 UNC
MD-55989	0.23 (0.105)	AMD-55989	0.09 (0.041)	1/2-13 UNC: 1/4-20 UNC
MD-76214	0.61 (0.277)	AMD-76214	0.24 (0.109)	7/16-14 UNC
MD-76214-4 (UNTHREADED)	0.62 (0.282)	AMD-76214-4 (UNTHREADED)	0.24 (0.109)	
MD-76214-5	0.65 (0.295)	AMD-76214-5	0.25 (0.114)	7/16-14 UNC
MD-43994	1.95 (0.886)	N/A	N/A	
MD-43396	1.46 (0.664)	N/A	N/A	
MD-806105	0.49 (0.223)	AMD-806105	0.19 (0.086)	
MD-806189	0.19 (0.086)	AMD-806189	0.07 (0.032)	
MD-822157-C2	1.06 (0.482)	N/A	N/A	
MD-823912	0.75 (0.340)	AMD-823912	0.35 (0.170)	1/4 - 13/16 UNC
MD-823913	1.00 (0.450)	AMD-823913	0.45 (0.200)	1/4 - 15/16 UNC
MD-892227	N/A N/A	AMD-892227A	0.10 (0.050)	
MD-826134	0.56 (0.255)	AMD-826134	0.34 (0.155)	
MD-847266	N/A N/A	AMD-847266	0.05 (0.020)	
MD-89949	2.36 (1.073)	N/A	N/A	
MD-818298	1.40 (0.636)	AMD-818298	0.55 (0.250)	
MD-821629	1.59 (0.723)	AMD-821629	0.62 (0.282)	1/4-20 UNC
MD-821630	2.21 (1.005)	AMD-821630	0.86 (0.391)	
MD-821631	1.99 (0.905)	AMD-821631	0.78 (0.355)	
MD-806190	0.67 (0.305)	AMD-806190	0.26 (0.118)	
MD-98432-5	0.94 (0.427)	AMD-98432-5	0.37 (0.168)	M8 X 1.25
MD-806188	0.33 (0.150)	AMD-806188	0.13 (0.059)	
MD-865182	1.12 (0.509)	AMD-865182	0.42 (0.191)	
MD-848653T K-PLANE	N/A N/A	AMD-848653T K-PLANE	0.65 (0.295)	
MD-847332 K-PLANE	N/A N/A	AMD-847332 K-PLANE	0.44 (0.200)	
MD-847266 K-PLANE	N/A N/A	AMD-848266 K-PLANE	0.18 (0.082)	
MD-875208	0.06 (0.030)	AMD-875208	0.03 (0.014)	
MD-880653	1.10 (0.500)	AMD-880653	0.44 (0.200)	



MD-34127



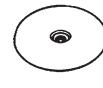
MD-31640



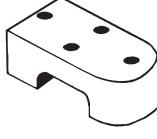
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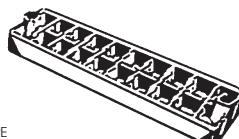
MD-46399

MD-76214
MD-76214-5

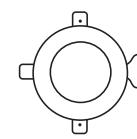
MD-822157-C2

MD-823912
MD-823913MD-43994
(821631)

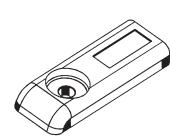
MD-821631

THREADED CORE
1/4 NC
1/2 NC

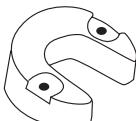
MD-43396



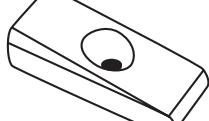
MD-806105



MD-892227A



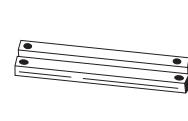
MD-806189



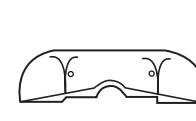
MD-826134



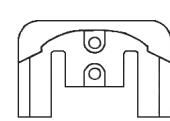
MD-89949



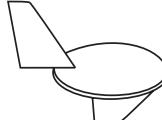
MD-818298



MD-821629



MD-821630



MD-98432-5



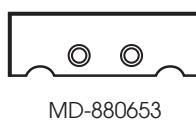
MD-875208

MD-847266 K-PLANE
MD-847332 K-PLANE
ALUMINUM ONLYMD-848653T
K-PLANE
ALUMINUM ONLY

MD-806188



MD-806190



MD-880653



MD-865182

RELIANCE PRODUCTS - 100% MANUFACTURED IN NORTH AMERICA



ZINC FOR SALT WATER

ALUMINUM FOR SALT AND BRACKISH WATER

Mercury Anode Kits

AVAILABLE IN ZINC & ALUMINUM

ALPHA 1 ANODE KIT

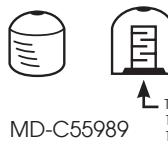
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- 1 - MD-821631
- 2 - MD-55989



MD-31640



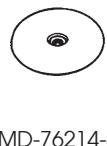
MD-821631



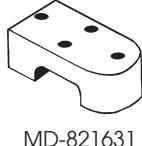
MD-C55989
1/4 NC
1/2 NC

ALPHA 1 GEN 11 ANODE KIT

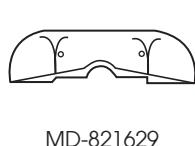
- 1 - MD-76214-5
- 1 - MD-821631
- 1 - MD-821629
- 2 - MD-806189
- 1 - MD-806105



MD-76214-5



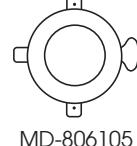
MD-821631



MD-821629



MD-806189



MD-806105

ALPHA 1 GEN 11 W/FIN ANODE KIT

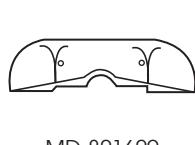
- 1 - MD-31640
- 1 - MD-821631
- 1 - MD-821629
- 2 - MD-806189
- 1 - MD-806105



MD-31640



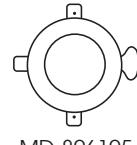
MD-821631



MD-821629



MD-806189



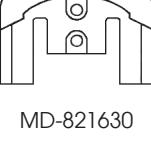
MD-806105

BRAVO 1 ANODE KIT

- 1 - MD-76214-5
- 1 - MD-821630
- 2 - MD-806190
- 1 - MD-806188



MD-76214-5



MD-821630



MD-806190



MD-806188

BRAVO 111 (2003) ADD ON

- 1 - MD-76214-4
- 1 - MD-865182



MD-76214-5



MD-865182

BRAVO 11 + 111 ANODE KIT

- 1 - MD-76214-5
- 1 - MD-821630
- 2 - MD-806190



MD-76214-5



MD-821630



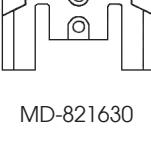
MD-806190

BRAVO 111 (2004+) ANODE KIT

- 1 - MD-76214-5
- 1 - MD-76214-4
- 1 - MD-821630
- 2 - MD-806190
- 1 - MD-865182



MD-76214-5



MD-821630



MD-806190



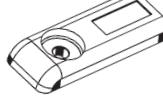
MD-865182

VERADO - 6 ALUMINUM ONLY

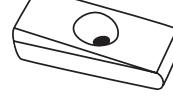
- 1 - MD-880653
- 4 - MD-892227A
- 2 - MD-826134
- 1 - MD-76214-5



MD-880653



MD-892227A



MD-826134



MD-76214-5

HARDWARE INCLUDED

RELIANCE PRODUCTS - 100% MANUFACTURED IN NORTH AMERICA

reliance

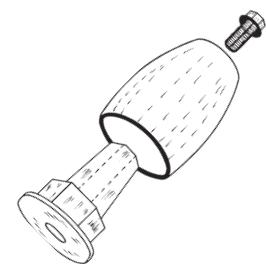
Pleasure Craft
Anodes



Propeller nut replacement comes with washers attached.

PROPELLER NUTS

THREAD SIZE PER INCH	SHAFT SIZE IN (mm)	ZINC SIZE	O.D. IN (mm)	REPLACEMENT	
				SLEEVE LBS. (kg)	COMPLETE LBS. (kg)
1/2 NC 13	3/4 (19)	A	1-1/4 (32)	0.2 (.09)	0.34 (.15)
5/8 NC 11	7/8 (22)	B	1-5/8 (41)	0.5 (.23)	0.82 (.37)
3/4 NC 10	1 (25)	C	2 (51)	1.06 (.48)	1.55 (.70)
7/8 NC 9	1-1/4 (32)	D	2-5/16 (59)	1.5 (.68)	2.2 (1.0)
1 NC 8	1-3/8 (35)	E	2-1/2 (64)	1.7 (.77)	2.55 (1.16)
1-1/8 NC 7	1-1/2 (38)	F	2-3/4 (70)	2.0 (.91)	3.2 (1.54)
1-1/4 NC 7	1-3/4 (44)	G	3-1/8 (79)	2.8 (1.27)	4.6 (2.09)
1-1/2 NC 6	2 (51)	H	3-3/8 (86)	3.1 (1.41)	5.75 (2.61)



ZINC ANODES		ALUMINUM ANODES		ZINC ANODES		ALUMINUM ANODES	
TYPE NUMBER	NOM. WEIGHT lbs. (kg)	TYPE NUMBER	NOM. WEIGHT lbs. (kg)	TYPE NUMBER	NOM. WEIGHT lbs. (kg)	TYPE NUMBER	NOM. WEIGHT lbs. (kg)
A - REPLACEMENT	0.22 (0.100)	AA - REPLACEMENT	0.09 (0.041)	A - COMPLETE	0.30 (0.136)	AA - COMPLETE	0.34 (0.155)
B - REPLACEMENT	0.49 (0.223)	AB - REPLACEMENT	0.19 (0.086)	B - COMPLETE	0.80 (0.364)	AB - COMPLETE	0.46 (0.209)
C - REPLACEMENT	1.09 (0.495)	AC - REPLACEMENT	0.43 (0.195)	C - COMPLETE	1.40 (0.636)	AC - COMPLETE	0.78 (0.355)
D - REPLACEMENT	1.55 (0.705)	AD - REPLACEMENT	0.61 (0.277)	D - COMPLETE	2.20 (1.000)	AD - COMPLETE	1.33 (0.605)
E - REPLACEMENT	1.76 (0.800)	AE - REPLACEMENT	0.69 (0.314)	E - COMPLETE	2.60 (1.182)	AE - COMPLETE	1.43 (0.650)
F - REPLACEMENT	2.10 (0.955)	AF - REPLACEMENT	0.82 (0.373)	F - COMPLETE	3.10 (1.409)	AF - COMPLETE	1.75 (0.795)
G - REPLACEMENT	2.81 (1.277)	AG - REPLACEMENT	1.10 (0.500)	G - COMPLETE	4.30 (1.955)	AG - COMPLETE	2.59 (1.177)
H - REPLACEMENT	3.17 (1.441)	AH - REPLACEMENT	1.24 (0.564)	H - COMPLETE	5.60 (2.545)	AH - COMPLETE	3.22 (1.464)

SPECIAL THREAD CONFIGURATION AVAILABLE

AVAILABLE IN "ZINC ONLY" OR "COMPLETE WITH BRASS INSERT"

FOR SCREWS AND WASHERS, ORDER BY ZINC SIZE

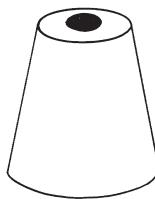
SCREWS WASHERS

A	A, B
B	C, D, E, F
C, D, E, F	G, H
	G, H

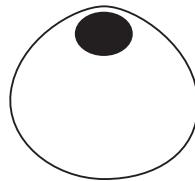
ORDER BY THREAD SIZE, (RIGHT OR LEFT) HAND

BENETEAU

ZINC ANODES		ALUMINUM ANODES	
TYPE NUMBER	NOM. WEIGHT lbs. (kg)	TYPE NUMBER	NOM. WEIGHT lbs. (kg)
BEN-22/25 (Jeanneau Jr)	0.30 (0.136)	ABEN-22/25 (Jeanneau Jr)	0.12 (0.055)
BEN-30 (Jeanneau)	0.59 (0.268)	ABEN-30 (Jeanneau)	0.23 (0.105)
BEN-35	0.72 (0.327)	ABEN-35	0.28 (0.127)
BEN-40	1.11 (0.505)	ABEN-40	0.43 (0.195)
BEN-45	1.57 (0.714)	ABEN-45	0.61 (0.277)



JEANNEAU SAILBOAT
Prop Zinc - 0.60 lbs. (.273 kg)
JEANNEAU JR.
Prop Zinc - 0.30 lbs. (.136 kg)



FX FLEXOFOLD
ZINC 1 LBS .45 KG
ALUMINUM .45 LBS .205 KG

RELIANCE PRODUCTS - 100% MANUFACTURED IN NORTH AMERICA



ZINC FOR SALT WATER

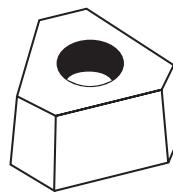
ALUMINUM FOR SALT AND BRACKISH WATER

Pleasure Craft Propeller Nuts

Propeller nut replacement comes with washers attached.

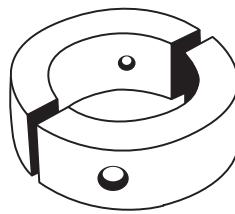
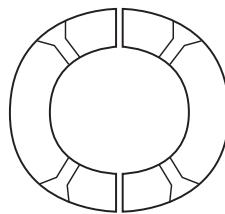
GORI PROPELLER NUTS

ZINC ANODES			ALUMINUM ANODES			NOMINAL DIMENSIONS					
TYPE NUMBER	NOM. WEIGHT		TYPE NUMBER	NOM. WEIGHT		HOLE DIAMETER		WIDTH		HEIGHT	
	lbs.	(kg)		lbs.	(kg)	in	(mm)	in	(mm)	in	(mm)
MD-GP - 14072100	0.08	(0.04)	AMD-GP - 14072100	0.08	(0.04)	0.30	(8)	1.0	(26)	0.63	(16)
MD-GP - 14073100	0.08	(0.04)	AMD-GP - 14073100	0.08	(0.04)	0.25	(6)	1.1	(28)	0.63	(16)
MD-GP - 14074100	0.19	(0.09)	AMD-GP - 14074100	0.19	(0.09)	0.30	(8)	1.3	(33)	0.80	(20)



GORI PROPELLER RINGS

ZINC ANODES			ALUMINUM ANODES			NOMINAL DIMENSIONS					
TYPE NUMBER	NOM. WEIGHT		TYPE NUMBER	NOM. WEIGHT		OUTSIDE DIA.		INSIDE DIA.		HEIGHT	
	lbs.	(kg)		lbs.	(kg)	in	(mm)	in	(mm)	in	(mm)
MD-GP - 15520000	0.75	(0.33)	AMD-GP - 15520000	0.30	(0.14)	2.60	(65)	1.8	(45)	1.3	(34)
MD-GP - 15527500	0.80	(0.35)	AMD-GP - 15527500	0.32	(0.15)	3.20	(81)	2.2	(56)	1.0	(23)
MD-GP - 15530000	1.90	(0.85)	AMD-GP - 15530000	0.76	(0.34)	3.25	(83)	2.1	(53)	1.6	(40)
MD-GP - 15539500	2.20	(0.97)	AMD-GP - 15539500	0.88	(0.40)	3.75	(95)	2.4	(60)	1.3	(34)
MD-GP - 15540000	2.90	(1.40)	AMD-GP - 15540000	1.16	(0.53)	3.75	(95)	2.4	(60)	1.8	(47)
MD-GP - 15670000	1.41	(0.60)	AMD-GP - 15670000	0.85	(0.39)	3.80	(97)	3.1	(80)	1.6	(40)



RELIANCE PRODUCTS - 100% MANUFACTURED IN NORTH AMERICA

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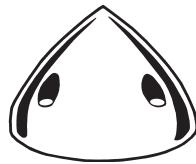
Pleasure Craft
Anodes



MAX PROP

63M

- Fits 2001 and older 63mm hubs non-circular in diameter
- Weight: 0.6 lbs
- For 3/4" to 1-1/8" and 22mm to 28mm diameter shafts
- Mounting holes 46mm centre-to-centre (1-13/16")
- Uses 63/70mm Large Screw Set
(5mm diameter screws, 20mm long, 4mm hex wrench)



ZINC ANODES

TYPE NUMBER	NOM. lbs.	WEIGHT (kg)
Max Prop 63m	0.59	0.268
Max Prop 70m	0.88	0.400
Max Prop 83m	1.73	0.786

ALUMINUM ANODES

TYPE NUMBER	NOM. lbs.	WEIGHT (kg)
AMax Prop 63m	0.23	0.105
AMax Prop 70m	0.34	0.155
AMax Prop 83m	0.68	0.309

70M

- Fits 2001 and older 70mm hubs (non-circular)
- Weight: 0.9 lbs
- For 1-1/4" to 1-3/8" (30mm to 28mm) diameter shafts
- Mounting holes 50mm centre-to-centre (2")
- Uses 63/70mm Large Screw Set
(5mm diameter screws, 20mm long, 4mm hex wrench)

83M

- Fits 2003 and older 83mm hubs
- Weight: 1.9 lbs
- For 1-1/2" to 1-3/4" (38mm to 40mm) diameter shafts
- Mounting holes 50mm centre-to-centre (2")
- Uses 83/100mm Large Screw Set
(6mm diameter screws, 25mm long, 5mm hex wrench)

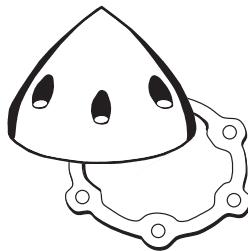
MAX PROP UNIVERSAL WITH INSERT

63M4

- "Universal" zinc anode for 63mm Max Prop propeller hubs that use Large Screws (5mm diameter) on either 46mm (1-13/16") or 43mm (1-5/8") centres.
- Required for all model years 2006 and later.
- Fits most other models except 2003, 2004, and 2005 that use Small Screw Set.
- Weight: 0.6 lbs.
- Anode base diameter: 2-3/8" (circular)
- For 3/4", 7/8", 1", 1-1/8" and 22mm, 25mm, 28mm shafts

70M4

- "Universal" zinc anode for 70mm Max Prop propeller hubs that use either Large Screws (5mm) or Small (4mm) diameter mounting screws.
- Weight: 0.8 lbs.
- Anode base diameter: 2-11/16" (circular)
- For 1-1/4", 1-3/8" and 30mm, 35mm shafts
- Mounting holes 50mm centre-to-centre (2")
- Uses the 63/70mm Max Prop Zinc Anode Large Screw Set (5mm diameter) socket cap screws, 20mm long, 4mm hex wrench) or the 63/70 Max Prop Zinc Anode Small Screw Set (4mm diameter socket cap screws, 20mm long, 3mm hex wrench)



ZINC ANODES

TYPE NUMBER	NOM. lbs.	WEIGHT (kg)
Max Prop 63m Universal	0.63	0.286
Max Prop 70m Universal	0.88	0.400
Max Prop 83m Universal	1.88	0.855

ALUMINUM ANODES

TYPE NUMBER	NOM. lbs.	WEIGHT (kg)
AMax Prop 63m Universal	0.25	0.114
AMax Prop 70m Universal	0.34	0.155
AMax Prop 83m Universal	0.73	0.332

83M4

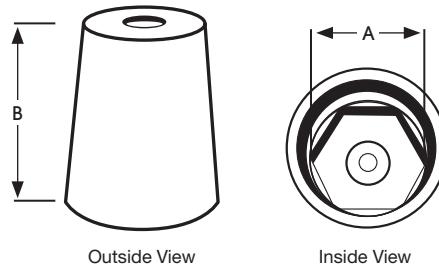
- "Universal" zinc anode for 83mm Max Prop propeller hubs
- Weight: 2.0 lbs
- For 1-1/2" to 1-3/4" (38mm to 40mm) diameter shafts
- Small mounting holes 55mm centre-to-centre (2-1/8")
- Large mounting holes 60mm centre-to-centre (2-3/8")
- For 2004 and newer propellers, use smaller mounting holes with Small Screw Set (5mm diameter screws, 25mm long)
- For 2003 and older propellers, use larger mounting holes with Large Screw Set (6mm diameter screws, 25mm long)

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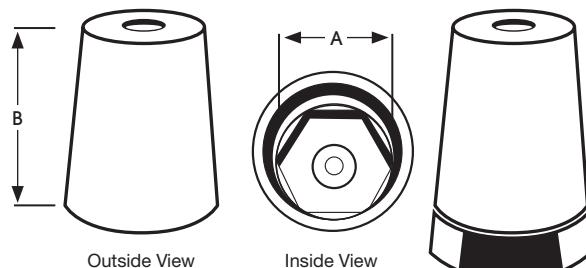
RADICE/AZIMUT PROPELLER ZINC ANODE (ANODE ONLY)

ZINC ANODES		NOMINAL DIMENSIONS		
TYPE NUMBER	NOM. WEIGHT lbs. (kg)	A DIAMETER in (mm)	DIMENSION B in (mm)	
40 MM	1.00 (0.460)	1.6 (41)	2.6 (67)	
45 MM	1.75 (0.795)	1.6 (41)	3.0 (76)	
50 MM	2.2 (1.000)	2.9 (73)	3.3 (84)	
55 MM	2.25 (1.000)	3.0 (75)	3.4 (87)	
60 MM	3.5 (1.591)	3.2 (82)	3.8 (98)	



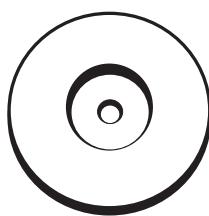
RADICE/AZIMUT PROPELLER ZINC ANODE (INCLUDES INSERT & HARDWARE)

ZINC ANODES		NOMINAL DIMENSIONS		THREAD SIZE (mm)
TYPE NUMBER	NOM. WEIGHT lbs. (kg)	A DIAMETER in (mm)	DIMENSION B in (mm)	
40 MM	1.00 (0.460)	1.6 (41)	2.6 (67)	24 x 200
45 MM	1.75 (0.795)	1.6 (41)	3.0 (76)	33 x 200
50 MM	2.2 (1.000)	2.9 (73)	3.3 (84)	36 x 300
55 MM	2.25 (1.000)	3.0 (75)	3.4 (87)	40 x 300
60 MM	3.5 (1.591)	3.2 (82)	3.8 (98)	45 x 300

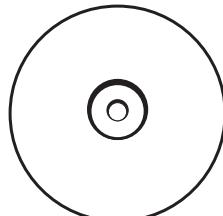


RADICE/AZIMUT ZINC ANODE

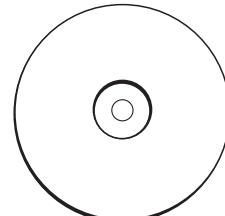
TYPE NUMBER	NOM. WEIGHT lbs. (kg)	ALUMINUM ANODES		NOMINAL DIMENSIONS		
		TYPE NUMBER	NOM. WEIGHT lbs. (kg)	DIAMETER in (mm)	THICKNESS in (mm)	HOLE DIA in (mm)
125MM TRANSOM	5.90 (2.7)	125MM TRANSOM	2.36 (1.07)	5 (125)	1-1/2 (38)	1/2 (14)
125MM STREAMLINED HULL	2.20 (1.0)	125MM STREAMLINED HULL	0.88 (0.40)	4.9 (125)	0.8 (21)	0.4 (11)
140MM STREAMLINED HULL	3.25 (1.5)	140MM STREAMLINED HULL	1.30 (0.59)	5-1/2 (140)	1 (25)	0.4 (11)



RADICE/AZIMUT 125MM TRANSOM



RADICE/AZIMUT 125MM STREAMLINED HULL



RADICE/AZIMUT 140MM STREAMLINED HULL

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SIDE POWER BOW THRUSTERS

ZINC ANODES		ALUMINUM ANODES		NOMINAL DIMENSIONS	
TYPE NUMBER	NOM. WEIGHT lbs. (kg)	TYPE NUMBER	NOM. WEIGHT lbs. (kg)	A DIAMETER in (mm)	DIMENSION B in (mm)
MD-SM-31180	0.13 (0.059)	AMD-SM-31180	0.05 (0.023)	15/16 (24)	1/2 (13)
MD-SM-71190 (MD-SM-51180)	0.25 (0.114)	AMD-SM-71190 (AMD-SM-51180)	0.10 (0.045)	1-3/4 (44)	3/4 (19)
MD-SM-201180	0.60 (0.273)	AMD-SM-201180	0.23 (0.105)	1-7/8 (47)	1-5/8 (41)
MD-SM-501180	2.42 (1.100)	AMD-SM-501180	0.93 (0.420)	2-3/4 (69)	2-0 (51)



MD-SM-31180

MD-SM-71190
(MD-SM-51180)

MD-SM-201180



MD-SM-501180

KEY POWER BOW THRUSTER

ZINC ANODES		ALUMINUM ANODES	
TYPE NUMBER	NOM. WEIGHT lbs. (kg)	TYPE NUMBER	NOM. WEIGHT lbs. (kg)
MD-55989	0.23 (1.05)	AMD-55989	0.09 (0.041)

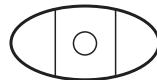
THREADED CORE
1/2"THREADED CORE
7/16"THREADED CORE
1/4"

PLEASE SPECIFY THREAD SIZE WHEN ORDERING

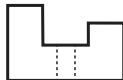
VETUS BOW THRUSTERS

ZINC ANODES		ALUMINUM ANODES		NOMINAL DIMENSIONS	
TYPE NUMBER	NOM. WEIGHT lbs. (kg)	TYPE NUMBER	NOM. WEIGHT lbs. (kg)	A DIAMETER in (mm)	DIMENSION B in (mm)
MDBP-129	1.00 0.455	AMDBP-129	0.50 0.230		
MDBP-195	1.00 0.455	AMDBP-195	0.50 0.230	2-1/4 (57)	1-5/8 (35)
MDBP-1185	1.00 0.455	AMDBP-1185	0.50 0.230	2-1/4 (57)	
MDBP-1210	0.84 0.382	AMDBP-1210	0.40 0.182	2 (51)	1-1/2 (38)
MDBP-1126	1.00 0.455	AMDBP-1126	0.50 0.230	2 (51)	
MDBP-1221	0.08 0.036	AMDBP-1221	0.03 0.010	1-1/2 (38)	

MDBP-129

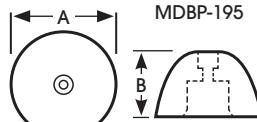


BOTTOM

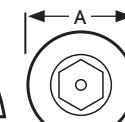


SIDE

MDBP-195



TOP



INSIDE

MDBP-1185

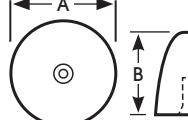


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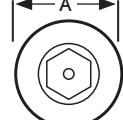


BOTTOM

MDBP-1210

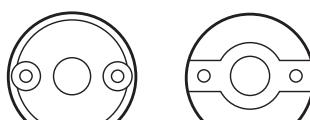


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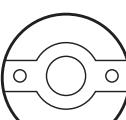


INSIDE

MDBP-1126



TOP



BOTTOM

MDBP-1221



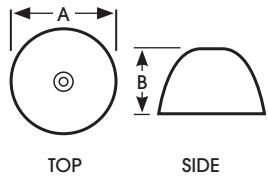
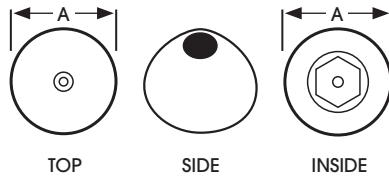
TOP

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QUICK BTQ / BTR THRUSTERS

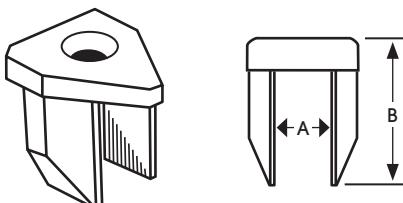
ZINC ANODES		ALUMINUM ANODES		NOMINAL DIMENSIONS	
TYPE NUMBER	NOM. WEIGHT lbs. (kg)	TYPE NUMBER	NOM. WEIGHT lbs. (kg)	A DIAMETER in (mm)	B HEIGHT in (mm)
MD-BTQ140MM	0.3 0.14	AMD-BTQ140MM	0.12 0.05	1-7/8 (34)	1-1/4 (32)
MD-BTQ185MM	0.6 0.27	AMD-BTQ185MM	0.24 0.11	2 (51)	1-1/4 (32)
MD-BTQ250MM	0.8 0.36	AMD-BTQ250MM	0.32 0.15	2.3 (60)	1-3/4 (44)
MD-BTQ300MM	1.2 0.54	AMD-BTQ300MM	0.48 0.22	2.3 (60)	1-3/4 (44)

BTQ/BTR 140MM
BTQ/BTR 185MMBTQ/BTR 250MM
BTQ/BTR 300MM

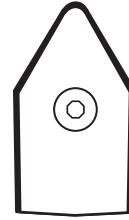
Spurs Line Cutter Anodes

SPURS LINE CUTTER ANODES

ZINC ANODES		ALUMINUM ANODES		NOMINAL DIMENSIONS	
TYPE NUMBER	NOM. WEIGHT lbs. (kg)	TYPE NUMBER	NOM. WEIGHT lbs. (kg)	A INSIDE WIDTH in (mm)	B OVERALL HEIGHT in (mm)
SIZE A	.05 (0.02)	SIZE A	.03 (0.02)	0.37 (41)	0.68 (18)
SIZE B	.05 (0.02)	SIZE B	.03 (0.02)	0.40 (41)	0.68 (18)
SIZE C-D-E	.10 (0.05)	SIZE C-D-E	.05 (0.05)	0.52 (73)	1.25 (35)
SIZE F-F1	.20 (0.09)	SIZE F-F1	.08 (0.09)		



SIZE A, B & C, D, E

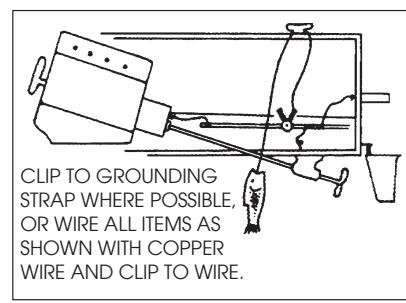
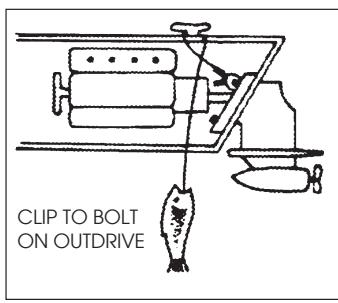


SIZE F-F1

Grouper Anodes

The Grouper comes complete with 15 foot cable and clip.
Available in zinc and aluminum.

ZINC ANODES		ALUMINUM ANODES		L	H	W
TYPE NUMBER	NOM. WEIGHT lbs. (kg)	TYPE NUMBER	NOM. WEIGHT lbs. (kg)			
GROUPER	6.00 2.727	GROUPER	2.34 1.064	11 (279mm)	3 3/4 (95mm)	1 1/8 (29mm)



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PLEASURE CRAFT ANODES FOR ARNESON

REF.	ZINC ANODES	ALUMINUM ANODES
SM	1.20 lbs. (.55 kg)	.52 lbs. (.24 kg)
LG	3.66 lbs. (1.66 kg)	1.59 lbs (.72 kg)



ARNESON

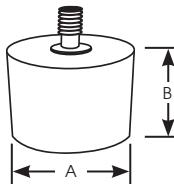
BENNETT - ZINC ALUMINUM

BNT-1	.44 lbs. (.200 kg)	3 3/4 (95mm) x 1 1/8 (29mm) x 1/2 (13mm)	1 1/2 (38mm) c/c	BNT Hardware 1/4-20 UNC x 1 1/4
ABNT-1	.19 lbs. (.086 kg)	3 3/4 (95mm) x 1 1/8 (29mm) x 1/2 (13mm)	1 1/2 (38mm) c/c	BNT Hardware 1/4-20 UNC x 1 1/4



BNT-1

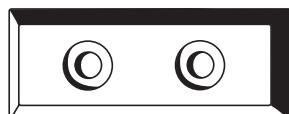
GALVION ZINC ANODES



TYPE NUMBER	NOM. WEIGHT lbs. (kgs)	A-DIAMETER IN (MM)	B-LENGTH IN (MM)	INT. THREAD	BRASS PLUG NPT. IN (MM)
MD-ZDM-500	0.04 (0.02)	0.50 (13)	0.75 (19)	12-28	0.375 (10)
MD-ZDM-625	0.05 (0.02)	0.625 (17)	0.75 (19)	12-28	0.50 (13)
MD-ZDM-825	0.09 (0.04)	0.82 (21)	0.75 (19)	12-28	0.75 (19)
MD-ZDM-1050	0.16 (0.48)	0.82 (21)	0.75 (19)	12-28	1.0 (25)

SEA STRAINER

TYPE NUMBER	ZINC ANODES		ALUMINUM ANODES		
	NOM. WEIGHT lbs. (kg)	TYPE NUMBER	NOM. WEIGHT lbs. (kg)	TYPE NUMBER	
SZ1	0.55 (0.250)	ASZ1	0.24 (0.109)		1 1/2 (38) x 3 7/8 (98) x 1/2 (13)
DOKA (656934)	0.33 (0.150)	ADOKA (656934)	0.14 (0.064)		1 1/4 (32) x 3 3/8 (86) x 7/16 (11)



SZ1



DOKA (656934)



Frigoboot

E51525 - .09 lbs. (.041 kg) - **ZINC**
AE51525 - .04 lbs. (.018 kg) - **ALUMINUM**

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GALVANIC CORROSION

When two or more dissimilar metals are in contact with each other and immersed in an electrolyte (a liquid that can conduct electricity), the more active metal electrically (less noble) will sacrifice itself by electron flow from the more negatively charged metal (the anode) to the more positively charged metal (the cathode). Hence for protection of metal fittings on boats as well as hulls and drive units, a comprehensive plan of protection needs to be employed. By utilizing sacrificial anodes, these components will be protected because they are not corroding themselves with the loss of material as is the anode. For example, on a steel hulled boat with brass fittings submerged underwater, the two metals provide the anode (steel) and cathode (brass). The water completes the circuit just like a battery. In this arrangement, the steel will deteriorate as it is less noble than the brass. To protect both metals, a third metal is introduced that is less noble than the other two. The metals widely used for this cathodic protection are zinc, aluminum and magnesium. Each element has characteristics that make them suitable for certain applications. Factors that affect galvanic corrosion are the salinity of water, the pollutants present, the water flow rate, cavitation, oxygen content, temperature, etc. Anodes are supplied in varying weights and sizes, The surface area determines the amperage (current), which governs the amount of protection, and the weight determines the service life of the anode. As mentioned before, a metal that is more active electrically is less noble. On the Noble Scale these are the approximate negative voltages from Least to Most Noble: (referenced with a silver/silver chloride half cell)

MILLIVOLTS

METAL OR ALLOY

1580	Magnesium
1100	Aluminum (with Indium)
1050	Zinc
860	Cadmium
790	Mild Steel
750	Aluminum Stem Drive
500	Tin
450	Naval Brass
340	Copper
240	Lead
80	Silver
0	Gold

Example: If a zinc was protecting a brass fitting, the "driving" (or protecting) voltage would be -.6v. (-1.050vZn minus -.450v Naval Brass) or 600 mv.

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A Cathodic protection general rule of thumb is to provide a negative voltage that is at a minimum of -.2V(200mv)relative to the least noble metal being protected. There is, however, the possibility of overprotection as well as under protection in certain situations.

Overprotection can cause damage in the form of alkali corrosion to aluminum, delignification to wooden hulls (the breakdown of the fibers), and hull coatings (blistering). This can occur, for example, if a magnesium anode is used on aluminum, in water that is polluted, brackish (in between fresh and seawater) or seawater resulting in too much voltage. Another cause is stray DC current from defective wiring or equipment.

Approximate Recommended Range of Cathodic Protection:

Wood Hull: -550 to -400 millivolts

Fiberglass Hull: -550 to -900 mv

Steel Hull: -800 to -1050 mv

Non-metallic w/Aluminum drive: -900 to -1050 mv

Aluminum Hull: -900 to -1100 mv

The ability to attain the -200 mv negative shift is dependent on the amount of current (amperage) the anode generates in relationship to the area of coverage. This is determined by the anodes surface area and proximity to the metal being protected. Factors that cause current requirements to be higher are exposed areas (uncoated), water speed, and water temperature. Pure zinc has a theoretical capacity of 372 Ampere Hours per pound. That means at 1 amp, it would take 372 Hours to consume a pound of zinc. Now, zinc operates at about 95% efficiency so it would actually be approx. 353 Amp Hrs. On a steel hull, the current requirements for protection could be between .3 ma (milliamp) and 6 ma. per sq. ft. for submerged, protection depending on coating quality or lack thereof and very little water flow. For aluminum hulls, this range could be between .5 ma. and 8 ma. So an example would be a Z26 (25lbs) putting out 2 amps would last approx. (25 lbs x 353 amp hrs/ 2 amps /24hrs) or 8825/2= 4412.5/24= 183.8 days. Keep in mind that this is all theoretical and has many variables involved. A good rule of thumb is to be ready to change the anode when it reaches 50% consumption.

Types of Anodes and Applications

The best anodes on the market are ones that conform to Mil-Spec (Military Specification) Standards. They have been designed to provide maximum performance and reliability.

Magnesium - these are the most active anodes on the Galvanic Scale (least Noble) and are recommended only for pure fresh water. Can be used with Fiberglass or Steel Hulls with Inboard Drives or Wood, Fiberglass, Aluminum, and Steel Hulls with Outdrives. These anodes can easily overprotect in other kinds of Water with the resulting damage as explained above.

Zinc and Aluminum -these are generally suitable for all water conditions but there are preferences depending on hull type/drive type.

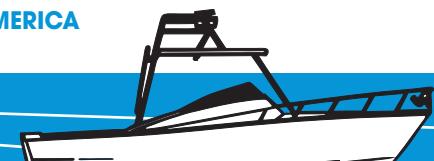
Need Requirements

A rough determination for coverage protection can be made by using the formula:
1/2 square ft. of zinc = wetted 100 square ft.

Disclaimer

Metal Distributors Ltd. makes no guarantees of the precision of any of the statements displayed. Metal Distributors Ltd. provides this data for informational purposes only. This data is not to be considered final or binding.

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WOOD HULL

- with inboard, zinc is preferable
- with outdrive or outboard, zinc or aluminum anodes. (Aluminum stem drives prefer aluminum anodes. The type of aluminum for anodes is less noble than the drive.)
- In fresh water, aluminum anodes with aluminum prop: magnesium or aluminum with stainless prop.

FIBREGLASS, ALUMINUM, STEEL HULL

- can use zinc or aluminum in fresh water, magnesium is preferred.

DOCKED VESSELS

A potentially serious problem can arise with a boat at dockside using shore power to the vessel. The ground wire will connect all boats galvanically. This means, if a boat alongside yours is also connected to shore power and he doesn't have anodes on his boat, then your boat will protect his as well. After the anodes are consumed, the metal components which are higher on the Galvanic Scale will now start being consumed. A galvanic isolator will remedy this by blocking the low voltage DC current flow that leads to this condition. (Attaches to the ground wire)

STRAY CURRENT

It is recommended to test your boat for DC voltage leaks. Stray currents can emanate from within a boat (faulty or exposed wiring), from shoreside fittings and /or cables, or from neighboring boats. A leak can have a devastating effect because of accelerated electron flow. Extreme cases can destroy hardware in a matter of hours. It doesn't take much current to overwhelm the low level protection of the cathodic system. Basically, any metal that is feeding a current into the water will be ruined. Wiring systems cannot have a path back to the source of power. Keep DC wires above water level in the bilge to avoid stray current and AC wires to avoid a shock hazard. Bonding system to help prevent stray currents, all electrical and underwater metal components should be connected to the battery's negative terminal or its bus thus equalizing the voltage between them.

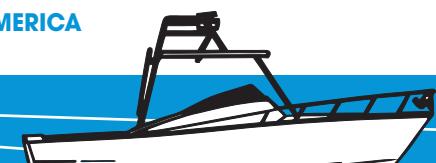
MISC. CONSIDERATIONS

Do not mix anode types, as the lesser noble will protect the more noble metal. Engine anodes are used with brass plugs, located in the water jackets, these also should be checked. Anodes should make good electrical contact with boat surfaces. A dielectric shield between the anode and protected metal will provide better current distribution. Never paint anodes. Remember to change anodes when half consumed so that the surface area remaining still gives adequate current for protection.

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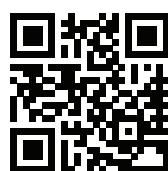
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Commercial and Pleasure Craft Anodes

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