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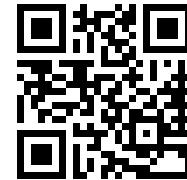
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RELIANCE PRODUCTS - 100% MANUFACTURED IN NORTH AMERICA



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
Pb006% 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 anode's 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%
Pb	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

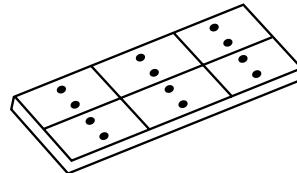
FOR SALT AND BRACKISH WATER ONLY

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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)

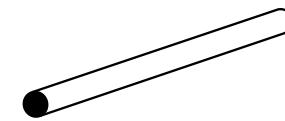


*Plates available in Aluminum Alloy

*Bonding Wire available for 1/2" Plates

Commercial Rods**COMMERCIAL RODS**

ZINC RODS (Mil-Spec)		ALUMINUM RODS (Mil-Spec)	
NOM. DIMENSIONS	NOM. WEIGHT lbs. (kg)	NOM. DIMENSIONS	NOM. WEIGHT 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)



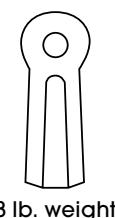
*Rods also available in 12" lengths

Sounding Lead Weights

Used in the marine industry to provide weight distribution or as counterweight and measuring the depth of water.

3 lb weight (6" length) is suitable for inshore soundings at slow speed, dinghy, etc.

7 lb weight (11" length) is recommended for offshore/coastal sounding and navigation, and improved accuracy for larger vessels with higher freeboard.



3 lb. weight



7 lb. weight



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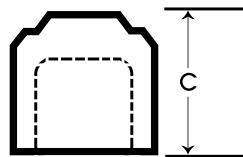
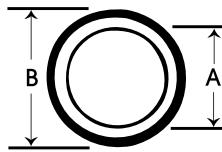
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Commercial
Anodes



COMMERCIAL PROPELLER NUT ANODES

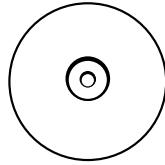
ZINC ANODES		ALUMINUM ANODES		NOMINAL DIMENSIONS				
TYPE NUMBER	NOM. WEIGHT lbs. (kg)	TYPE NUMBER	NOM. WEIGHT lbs. (kg)	A-DIA (ID)		B-DIA (OD)		C-DEPTH in (mm)
				in (mm)	in (mm)	in (mm)	in (mm)	
A	2.4 (.90)	-	-	2.0 (50)	2.75 (69)	2.875 (73)		
B	2.6 (1.15)	-	-	2.25 (57)	3.0 (76)	3.0 (76)		
1	4.0 (1.80)	-	-	2.5 (63)	3.375 (85)	3.625 (92)		
2	4.9 (2.50)	-	-	2.875 (73)	3.75 (95)	4.0 (101)		
3	5.8 (2.70)	-	-	3.25 (82)	4.125 (104)	4.0 (101)		
4	8.0 (3.40)	-	-	3.75 (95)	4.625 (117)	4.5 (114)		
5	10.3 (5.00)	-	-	4.25 (107)	5.25 (133)	5.0 (127)		
6	11.5 (5.20)	-	-	4.625 (117)	5.625 (142)	5.5 (139)		
7	13.0 (5.90)	-	-	5.0 (127)	6.0 (152)	6.0 (152)		
8	17.8 (7.60)	-	-	5.5 (139)	6.625 (168)	6.375 (161)		
9	24.8 (8.85)	-	-	6.0 (152)	7.125 (180)	6.75 (171)		
10	25.5 (11.35)	-	-	6.5 (165)	7.75 (196)	7.0 (177)		
11	29.8 (12.70)	-	-	7.0 (177)	8.125 (206)	8.125 (206)		
12	38.5 (16.80)	-	-	7.5 (190)	8.75 (222)	9.0 (228)		



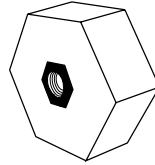
BOLT ON

CRAB TRAP ANODES

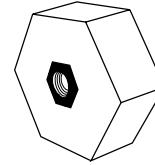
ZINC ANODES		ALUMINUM ANODES		DIA.	WIDTH	BOLT DIA.
TYPE NUMBER	NOM. WEIGHT lbs. (kg)	TYPE NUMBER	NOM. WEIGHT lbs. (kg)	in (mm)	in (mm)	in (mm)
MDCT-3	3.00 (1.35)	AMDCT-3	1.30 (0.600)	3-1/4 (83)	1-1/4 (32)	1/2 (13)
MDCT-3 HEX	3.00 (1.35)	AMDCT-3 HEX	1.30 (0.600)	3 (76)	1-3/8 (35)	1/2 (13)
MDCT-5 HEX	5.00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

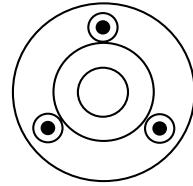


MDCT-5 HEX

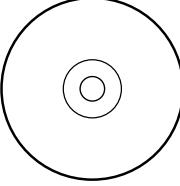
BOLT ON

COMMERCIAL BOLT-ON (PIE ANODES)

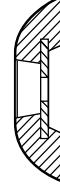
ZINC ANODES		ALUMINUM ANODES		DIA.	WIDTH	BOLT DIA.
TYPE NUMBER	NOM. WEIGHT lbs. (kg)	TYPE NUMBER	NOM. WEIGHT lbs. (kg)	in (mm)	in (mm)	in (mm)
Z-7	12.5 (6.000)	AZ-7	5.5 (2.500)	8 1/2" (216)		7/16" (17)
ZD-56	2.50 (1.136)	AZD-56	0.80 (0.364)	4" (101)		7/16" (17)
ZD-58	4.40 (2.000)	AZD-58	1.31 (0.595)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



Z-7



ZD-56 / ZD-58



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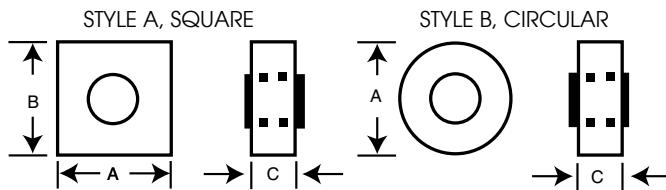
Commercial
Anodes

ZINC FOR SALT WATER**ALUMINUM FOR SALT AND BRACKISH WATER****Commercial Heat Exchanger Anodes**

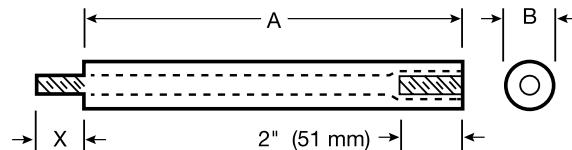
These Anodes are used on vessels of all sizes for protection of Heat Exchangers and other areas where space is a limiting factor. Style A Anodes are square, while Style B Anodes are cast in a circular configuration. Both these types have steel inserts cast integrally. Inserts project approximately one-eight 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-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**

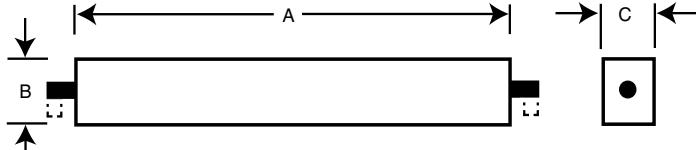
ZINC ANODES		NOMINAL DIMENSIONS						MOUNTING
TYPE NUMBER	NOM. WEIGHT lbs. (kg)	A-LENGTH in (mm)	B-WIDTH in (mm)	X in (mm)				
TREATER Z321	39.0 (17.70)	21.5 (546)	3.00 (76)	1.0, 1.5 (25, 38)				THREADED
TREATER Z321A	39.0 (17.70)	21.5 (546)	3.00 (76)	4.0 (102)				THREADED
TREATER Z330	56.0 (25.40)	30.0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

**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

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**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.

WELD ON ANODES

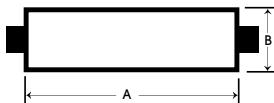
MD-ZHS-50		A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
	PART#	in (mm)	in (mm)	in (mm)	in (mm)	LBS (KGS)
ZINC	MD-ZHS-50	24.0 (609)	4.0 (101)	2.0 (50)		48.0 (22.7)
ALUM	AMD-AZHS-50	24.0 (609)	4.0 (101)	2.0 (50)		21.0 (9.50)
BOLT HOLES CAN BE ADDED ON STRAPS AS REQUIRED						
MD-ZMA-2204		A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
	PART#	in (mm)	in (mm)	in (mm)	in (mm)	LBS (KGS)
ZINC	MD-ZMA-2204	20.0 (508)	4.0 (101)	2.0 (50)		37.0 (21.5)
ALUM	AMD-ZMA-2204	20.0 (508)	4.0 (101)	2.0 (50)		20.0 (9.10)
BOLT HOLES CAN BE ADDED ON STRAPS AS REQUIRED						
MD-ZMA-2244		A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
	PART#	in (mm)	in (mm)	in (mm)	in (mm)	LBS (KGS)
ZINC	MD-ZMA-2244	24.0 (609)	4.0 (101)	2.0 (50)		48.0 (25.9)
ALUM	AMD-ZMA-2244	24.0 (609)	4.0 (101)	2.0 (50)		24.0 (10.9)
BOLT HOLES CAN BE ADDED ON STRAPS AS REQUIRED						
MD-ZMA-2248		A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
	PART#	in (mm)	in (mm)	in (mm)	in (mm)	LBS (KGS)
ZINC	MD-ZMA-2248	48.0 (1220)	5.0 (127)	5.0 (127)		310.0 (140.62)
ALUM	AMD-ZMA-2248	48.0 (1220)	5.0 (127)	5.0 (127)		120.0 (54.43)
BOLT HOLES CAN BE ADDED ON STRAPS AS REQUIRED						
MD-ZMA-3305		A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
	PART#	in (mm)	in (mm)	in (mm)	in (mm)	LBS (KGS)
ZINC	MD-ZMA-3305	30.0 (762)	5.0 (127)	3.0 (76)		71.5 (32.4)
ALUM	AMD-ZMA-3305	30.0 (762)	5.0 (127)	3.0 (76)		30.0 (13.6)
BOLT HOLES CAN BE ADDED ON STRAPS AS REQUIRED						
MD-ZMA-3365		A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
	PART#	in (mm)	in (mm)	in (mm)	in (mm)	LBS (KGS)
ZINC	MD-ZMA-3365	36.0 (914)	5.0 (127)	3.0 (76)		88.0 (39.9)
ALUM	AMD-ZMA-3365	36.0 (914)	5.0 (127)	3.0 (76)		37.0 (15.0)
BOLT HOLES CAN BE ADDED ON STRAPS AS REQUIRED						
MD-ZMA-4545		A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
	PART#	in (mm)	in (mm)	in (mm)	in (mm)	LBS (KGS)
ZINC	MD-ZMA-4545	54.5 (1384)	4.5 (114)	3.75 (95)		207.0 (93.90)
ALUM	AMD-ZMA-4545	54.5 (1384)	4.5 (114)	3.75 (95)		87.0 (39.50)
BOLT HOLES CAN BE ADDED ON STRAPS AS REQUIRED						
Z2, ZHS-23, ZHS-10, ZMA-1126		A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
	PART#	in (mm)	in (mm)	in (mm)	in (mm)	LBS (KGS)
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						
MD-Z-3		A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
	PART#	in (mm)	in (mm)	in (mm)	in (mm)	LBS (KGS)
ZINC	MD-Z3 OR MD-ZSS	12.0 (304)	3.0 (76)	1.25 (31)		10.0 (4.50)
ALUM	AMD-Z3 OR AMD-ZSS	12.0 (304)	3.0 (76)	1.25 (31)		5.0 (2.25)
BOLT HOLES CAN BE ADDED ON STRAPS AS REQUIRED						
MD-Z-4		A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
	PART#	in (mm)	in (mm)	in (mm)	in (mm)	LBS (KGS)
ZINC	MD-Z4	6.0 (152)	3.5 (88)	1.0 (25)		5.0 (2.25)
ALUM	AMD-Z4	6.0 (152)	3.5 (88)	1.0 (25)		2.1 (.95)
BOLT HOLES CAN BE ADDED ON STRAPS AS REQUIRED						

RELIANCE PRODUCTS - 100% MANUFACTURED IN NORTH AMERICA



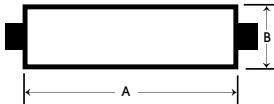
ZINC FOR SALT WATER

ALUMINUM FOR SALT AND BRACKISH WATER

Commercial Hull Anodes**WELD ON ANODES****MD-Z-6**

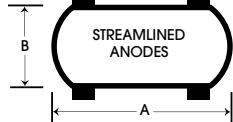
	PART#	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
ZINC	MD-Z6	5.0 (127)	2.5 (63)	1.0 (25)		3.0 (1.35)
ALUM	AMD-Z6	5.0 (127)	2.5 (63)	1.0 (25)		1.3 (.60)

BOLT HOLES CAN BE ADDED ON STRAPS AS REQUIRED

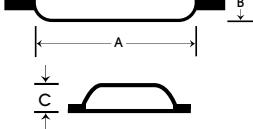
MD-Z-19

	PART#	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
ZINC	MD-Z19	25.0 (635)	3.125 (79)	1.25 (31)		23.0 (10.40)
ALUM	AMD-Z19	25.0 (635)	3.125 (79)	1.25 (31)		10.0 (4.55)

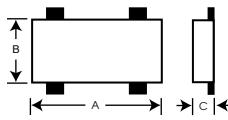
BOLT HOLES CAN BE ADDED ON STRAPS AS REQUIRED

MD-Z-22

	PART#	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
ZINC	MD-Z-22	14.0 (356)	6.50 (165)	1-1/2 (38)		23.0 (10.45)
ALUM	AMD-Z-22	14.0 (356)	6.50 (165)	1-1/2 (38)		10.0 (4.55)

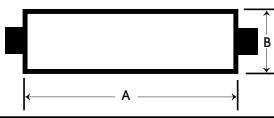
MD-Z-26 / MD-ZHS-26

	PART#	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
ZINC	MD-Z-26 / MD-ZHS-26	13.25 (336)	4.25 (108)	2-1/4 (57)		25.0 (11.36)
ALUM	AMD-Z-26 / AMD-ZHS-26	13.25 (336)	4.25 (108)	2-1/4 (57)		12.0 (5.45)

MD-ZHS-47

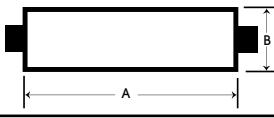
	PART#	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
ZINC	MD-ZHS-47	12.0 (304)	6.0 (152)	2.5 (2564)		45.0 (20.46)
ALUM	AMD-ZHS-47	12.0 (304)	6.0 (152)	2.5 (2564)		19.8 (9.0)

BOLT HOLES CAN BE ADDED ON STRAPS AS REQUIRED

MD-Z-220

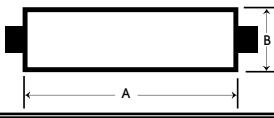
	PART#	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
ZINC	MD-Z-220	27.0 (685)	5.0 (127)	1.75 (44)		62.0 (28.12)
ALUM	AMD-Z-220	27.0 (685)	5.0 (127)	1.75 (44)		26.0 (11.79)

BOLT HOLES CAN BE ADDED ON STRAPS AS REQUIRED

MD-ZC-5

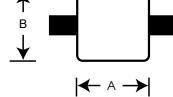
	PART#	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
ZINC	MD-ZC-5	9.0 (228)	2.25 (57)	1.25 (31)		5.0 (2.25)
ALUM	AMD-ZC-5	9.0 (228)	2.25 (57)	1.25 (31)		2.1 (.95)

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

MD-ZC-7

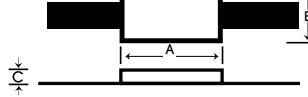
	PART#	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
ZINC	MD-ZC-7	9.0 (228)	2.25 (57)	1.625 (41)		7.0 (3.15)
ALUM	AMD-ZC-7	9.0 (228)	2.25 (57)	1.625 (41)		3.0 (1.35)

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

MD-661

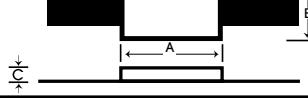
	PART#	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
ZINC	MD-661	6.0 (152)	6.0 (152)	1.0 (25)		9.0 (4.0)
ALUM	AMD-661	6.0 (152)	6.0 (152)	1.0 (25)		3.86 (1.75)

BOLT HOLES CAN BE ADDED ON STRAPS AS REQUIRED

MD-2431

	PART#	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
ZINC	MD-2431	4.0 (100)	3.0 (76)	1.00 (25)		3.08 (1.40)
ALUM	AMD-2431	4.0 (100)	3.0 (76)	1.00 (25)		1.30 (0.60)

BOLT HOLES CAN BE ADDED ON STRAPS AS REQUIRED

MD-2631

	PART#	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
ZINC	MD-2631	6.00 (155)	3.0 (76)	1.00 (25)		4.50 (2.00)
ALUM	AMD-2631	19.0 (481)	3.0 (76)	1.00 (25)		1.90 (0.90)

BOLT HOLES CAN BE ADDED ON STRAPS AS REQUIRED

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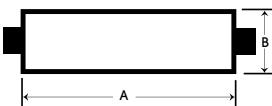
IN NORTH AMERICA

relianceCommercial
Anodes

NEW!
NEW!

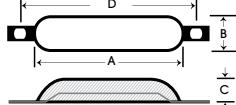
ZINC FOR SALT WATER

ALUMINUM FOR SALT AND BRACKISH WATER

Commercial Hull Anodes**WELD ON ANODES****MD-Z-519**

	PART#	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
ZINC	MD-Z-519	19.0 (481)	5.0 (127)	1.75 (44)		35.0 (15.88)
ALUM	AMD-Z-519	19.0 (481)	5.0 (127)	1.75 (44)		13.46 (6.11)

BOLT HOLES CAN BE ADDED ON STRAPS AS REQUIRED

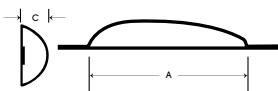
MD-Z-H55GB

	PART#	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
ZINC	MD-Z-H55GB	7.87 (200)	2.75 (70)	2.00 (50)	9.84 (250)	9.5 (4.31)
ALUM	AMD-Z-H55GB	7.87 (200)	2.75 (70)	2.00 (50)	9.84 (250)	4.00 (1.81)

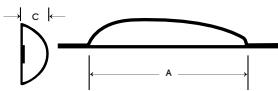
BOLT HOLES CAN BE ADDED ON STRAPS AS REQUIRED

ZINC FOR SALT WATER

ALUMINUM FOR SALT AND BRACKISH WATER

Commercial Teardrop Anodes**WELD ON ANODES****COMMERCIAL TEARDROP ANODES****MD-ZTS**

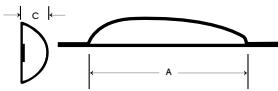
	PART#	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
ZINC	MD-ZTS	9.0 (228)	3.0 (76)	1.375 (34)		5.0 (2.25)
ALUM	AMD-ZTS	9.0 (228)	3.0 (76)	1.375 (34)		2.1 (0.95)

MD-35

	PART#	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
ZINC	MD-35	5.0 (127)	2.4 (60)	1.375 (34)		2.43 (1.10)
ALUM	AMD-35	5.0 (127)	2.4 (60)	1.375 (34)		1.10 (0.45)

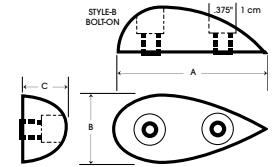
NEW

BOLT HOLES CAN BE ADDED ON STRAPS AS REQUIRED

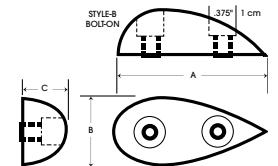
MD-37

	PART#	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
ZINC	MD-37	7.0 (178)	3.0 (76)	1.500 (38)		4.85 (2.20)
ALUM	AMD-37	7.0 (178)	3.0 (76)	1.500 (38)		1.94 (0.88)

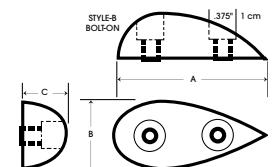
BOLT HOLES CAN BE ADDED ON STRAPS AS REQUIRED

BOLT ON ANODES**MD-Z-12**

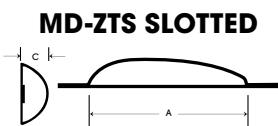
	MOUNTING	A - LGTH	B - WIDTH	C - DEPTH	D - C/C	WEIGHT
ZINC	MD-Z-12	1/4 (6)	4.0 (101)	1.25 (31)	0.75 (19)	2.00 (51) 0.75 (0.35)
ALUM	AMD-Z-12	1/4 (6)	4.0 (101)	1.25 (31)	0.75 (19)	2.00 (51) 0.38 (0.17)



	MOUNTING	A - LGTH	B - WIDTH	C - DEPTH	D - C/C	WEIGHT
ZINC	MD-Z-13	1/4 (6)	6.0 (152)	1.75 (44)	1.00 (25) 3.25 (83)	1.50 (0.70)
ALUM	AMD-Z-13	1/4 (6)	6.0 (152)	1.75 (44)	1.00 (25) 3.25 (83)	0.65 (0.30)



	MOUNTING	A - LGTH	B - WIDTH	C - DEPTH	D - C/C	WEIGHT
ZINC	MD-Z-14	1/4 (6)	8.0 (203)	2.625 (66)	1.5 (38) 4.0 (102)	3.25 (1.45)
ALUM	AMD-Z-14	1/4 (6)	8.0 (203)	2.625 (66)	1.5 (38) 4.0 (102)	1.35 (0.60)



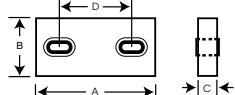
	MOUNTING	A - LGTH	B - WIDTH	C - DEPTH	D - C/C	WEIGHT
ZINC	MD-ZTS SLOTTED	1/4 (6)	9.0 (228)	3.0 (76)	1.375 (34) 10.75 (273)	5.0 (2.25)
ALUM	AMD-ZTS SLOTTED	1/4 (6)	9.0 (228)	3.0 (76)	1.375 (34) 10.75 (273)	2.1 (0.95)

RELIANCE PRODUCTS - 100% MANUFACTURED IN NORTH AMERICA



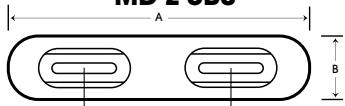
COMMERCIAL HULL ANODES

BOLT ON ANODES

SLOTTED MD-Z-1

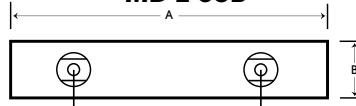
		A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
	PART#	in (mm)	in (mm)	in (mm)	in (mm)	LBS (KGS)
ZINC	MD-Z-1	12.0 (304)	6.0 (152)	1.25 (31)	6.0 (152)	23.0 (10.4)
ALUM	AMD-Z-1	12.0 (304)	6.0 (152)	1.25 (31)	6.0 (152)	9.7 (4.4)

(MD-ZHC-23, MD-B-9, MD-TH-24)

MD-Z-3BS

		A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
	PART#	in (mm)	in (mm)	in (mm)	in (mm)	LBS (KGS)
ZINC	MD-Z-3BS	12.0 (305)	3.0 (76)	1-1/2 (38)	6-8 (152-203)	8.5 (3.85)
ALUM	AMD-Z-3BS	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

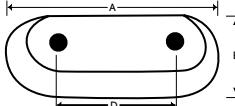
		A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
	PART#	in (mm)	in (mm)	in (mm)	in (mm)	LBS (KGS)
ZINC	MD-Z-03B	13.5 (329)	3.0 (76)	1-1/2 (38)	8-9 (203-228)	13.50 (6.120)
ALUM	AMD-Z-03B	13.5 (329)	3.0 (76)	1-1/2 (38)	8-9 (203-228)	5.00 (2.270)

SLOTTED WITH ALUMINUM INSERT - 3/4" x 2.5" SLOT

MD-Z-15B

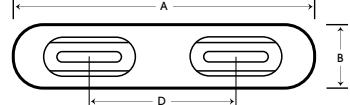
		A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
	PART#	in (mm)	in (mm)	in (mm)	in (mm)	LBS (KGS)
ZINC	MD-Z-15B	18.0 (456)	3.0 (76)	1.50 (38)	8.87 (229)	15.0 (6.90)
ALUM	AMD-Z-15B	18.0 (456)	3.0 (76)	1.50 (38)	8.87 (229)	6.33 (2.88)

SLOTTED WITH GALVANIZED STEEL INSERT

MD-Z-24B

		A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
	PART#	in (mm)	in (mm)	in (mm)	in (mm)	LBS (KGS)
ZINC	MD-Z-24B	14.0 (356)	6.5 (165)	1.5 (38)	5.0 (127)	20.0 (9.07)
ALUM	AMD-Z-24B	14.0 (356)	6.5 (165)	1.5 (38)	5.0 (127)	9.0 (4.018)

SLOTTED WITH ALUMINUM INSERT

MD-ZHC-11

		A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
	PART#	in (mm)	in (mm)	in (mm)	in (mm)	LBS (KGS)
ZINC	MD-ZHC-11	12.0 (305)	3.0 (76)	1-1/2 (38)	8-9 (203-208)	11.0 (5.00)
ALUM	AMD-ZHC-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

MD-ZHC-12

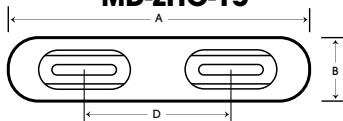
		A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
	PART#	in (mm)	in (mm)	in (mm)	in (mm)	LBS (KGS)
ZINC	MD-ZHC-12	12.0 (305)	3.0 (76)	1-1/2 (38)	6-0 (152)	10.0 (4.50)
ALUM	AMD-ZHC-12	12.0 (305)	3.0 (76)	1-1/2 (38)	6-0 (152)	5.0 (2.25)

SLOTTED WITH ALUMINUM INSERT - 5/8" SLOT

RELIANCE PRODUCTS - 100% MANUFACTURED IN NORTH AMERICA

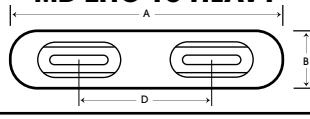
reliance

Commercial
Anodes

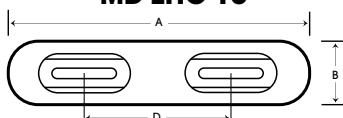
BOLT ON ANODES**COMMERCIAL HULL ANODES****MD-ZHC-15**

		A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
	PART#	in (mm)	in (mm)	in (mm)	in (mm)	LBS (KGS)
ZINC	MD-ZHC-15	16.0 (400)	3.0 (76)	1-3/4 (44)	9	(229) 16.0 (7.27)
ALUM	AMD-ZHC-15	16.0 (400)	3.0 (76)	1-3/4 (44)	9	(229) 6.5 (2.95)

SLOTTED GALVANIZED INSERT - 5/8" SLOT

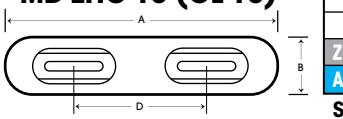
MD-ZHC-15 HEAVY

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

MD-ZHC-16

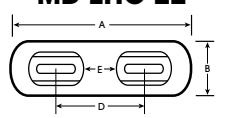
		A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
	PART#	in (mm)	in (mm)	in (mm)	in (mm)	LBS (KGS)
ZINC	MD-ZHC-16	17.5 (444.5)	3.5 (89)	2.0 (51)	9 (229)	16.0 (7.27)
ALUM	AMD-ZHC-16	17.5 (444.5)	3.5 (89)	2.0 (51)	9 (229)	7.0 (3.16)

MADE FOR "SUNSEEKERS", "SEA LIONS", "VIKING" BOATS AND MORE. • *SLOTTED GALVANIZED INSERT - 5/8" - 1"

MD-ZHC-18 (CL-18)

		A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
	PART#	in (mm)	in (mm)	in (mm)	in (mm)	LBS (KGS)
ZINC	MD-ZHC-18(CL-18)	16.0 (400)	3.5 (89)	2.0 (51)	9 (229)	18.0 (8.18)
ALUM	AMD-ZHC-18(CL-18)	16.0 (400)	3.5 (89)	2.0 (51)	9 (229)	7.8 (3.60)

SLOTTED GALVANIZED INSERT - 5/8" SLOT

MD-ZHC-22

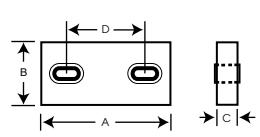
		A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	E-INNER DIA	WEIGHT
	PART#	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	LBS (KGS)
ZINC	MD-ZHC-22	17.0 (425)	4.00 (101)	2.00 (50)	8.0 (203)	3.18 (80)	21.0 (9.53)
ALUM	AMD-ZHC-22	17.0 (425)	4.00 (101)	2.00 (50)	8.0 (203)	3.18 (80)	7.78 (3.53)

MADE FOR "VIKING" BOATS & MORE

E - INNER DIA 3.18 INCHES (80 MM)

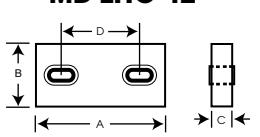
SLOTTED WITH ALUMINUM INSERT

NEW

MD-ZHC-24

		A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
	PART#	in (mm)	in (mm)	in (mm)	in (mm)	LBS (KGS)
ZINC	MD-ZHC-24	12.0 (304)	6.0 (152)	1.5 (38)	6.5 (165)	23.0 (10.43)
ALUM	AMD-ZHC-23	12.0 (304)	6.0 (152)	1.5 (38)	6.5 (165)	8.52 (3.86)

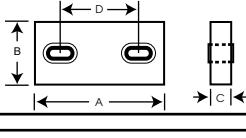
NEW

MD-ZHC-42

		A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
	PART#	in (mm)	in (mm)	in (mm)	in (mm)	LBS (KGS)
ZINC	MD-ZHC-42 MIL-SPEC	12.0 (304)	6.0 (152)	2.5 (38)	6.0 (152)	42.0 (19.05)
ALUM	AMD-ZHC-42 MIL-SPEC	12.0 (304)	6.0 (152)	2.5 (38)	6.0 (152)	15.5 (7.03)

NEW

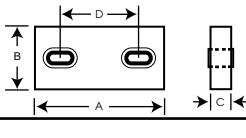
MOUNTING HOLES ARE ROUND NOT SLOTTED 5/8" - 6" C/C

MD-ZHC-44

		A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
	PART#	in (mm)	in (mm)	in (mm)	in (mm)	LBS (KGS)
ZINC	MD-ZHC-44	12.0 (304)	6.0 (152)	2.5 (38)	6.0 (152)	44.0 (19.96)
ALUM	AMD-ZHC-44	12.0 (304)	6.0 (152)	2.5 (38)	6.0 (152)	16.3 (7.39)

NEW

SLOTTED WITH ALUMINUM INSERT 5/8" TO 1-1/4"

MD-ZHC-47

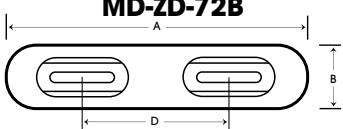
		A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
	PART#	in (mm)	in (mm)	in (mm)	in (mm)	LBS (KGS)
ZINC	MD-ZHC-47	12.0 (304)	6.0 (152)	2.5 (64)	6.0 (152)	44.0 (21.3)
ALUM	AMD-ZHC-47	12.0 (304)	6.0 (152)	2.5 (64)	6.0 (152)	19.8 (9.0)

RELIANCE PRODUCTS - 100% MANUFACTURED IN NORTH AMERICA



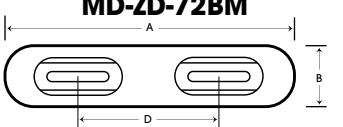
COMMERCIAL HULL ANODES

BOLT ON ANODES

MD-ZD-72B

	PART#	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
ZINC	MD-ZD-72B	18.0 (456)	4.0 (101)	2.25 (57)	9.0 (229)	26.0 (11.79)
ALUM	AMD-ZD-72B	18.0 (456)	4.0 (101)	2.25 (57)	9.0 (229)	10.0 (4.54)

SLOTTED WITH STEEL INSERT

MD-ZD-72BM

	PART#	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
ZINC	MD-ZD-72BM	18.0 (456)	4.0 (101)	1.50 (38)	8-9 (240)	17.0 (7.71)
ALUM	AMD-ZD-72BM	18.0 (456)	4.0 (101)	1.50 (38)	8-9 (240)	6.5 (2.95)

SLOTTED WITH STEEL INSERT

MD-ZD-76 MINI EURO

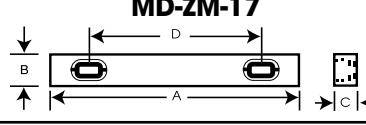
	PART#	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
ZINC	MD-ZD-76 MINI EURO	8-0 (200)	2-1/2 (65)	1-1/4 (32)	4-1/4 (110)	3.00 (1.318)
ALUM	AMD-ZD-76 MINI EURO	8-0 (200)	2-1/2 (65)	1-1/4 (32)	4-1/4 (110)	1.45 (0.659)

SLOTTED WITH ALUMINUM INSERTS

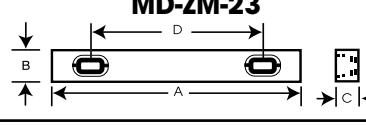
MD-ZD-77 EURO

	PART#	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
ZINC	MD-ZD-77 EURO	12.5 (318)	2.2 (64)	1-1/4 (32)	4-8 (110-210)	5.00 (2.40)
ALUM	AMD-ZD-77 EURO	12.5 (318)	2.2 (64)	1-1/4 (32)	4-8 (110-210)	2.50 (1.14)

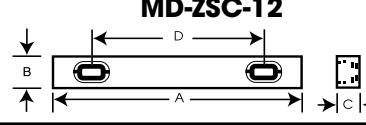
SLOTTED WITH ALUMINUM INSERTS

MD-ZM-17

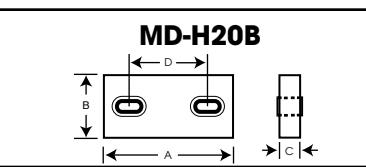
	PART#	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
ZINC	MD-ZM-17	24 (609)	3 (76)	1.125 (29)	12 (304)	18.0 (8.00)
ALUM	AMD-ZM-17	24 (609)	3 (76)	1.125 (29)	12 (304)	7.5 (3.4)

MD-ZM-23

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

MD-ZSC-12

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

MD-H20B

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

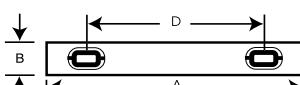
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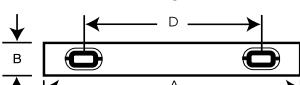
COMMERCIAL HULL ANODES

BOLT ON ANODES

MD-P5B2

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

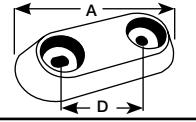
MD-P7B2, MD-ZHC-50

	PART#	A-LENGTH in (mm)	B-WIDTH in (mm)	C-DEPTH in (mm)	D-C/C in (mm)	WEIGHT LBS (KGS)
ZINC	MD-P7B2, MD-ZHC-50	24.0 (609)	4.0 (101)	2.00 (50)	12.0 (304)	44.5 (21.3)
ALUM	AMDP7B2, AMDZHC-50	24.0 (609)	4.0 (101)	2.00 (50)	12.0 (304)	19.8 (8.9)

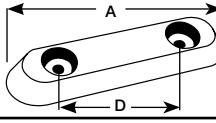
SLOTS IN ALUMINUM AND STEEL INSERTS, PLEASE SPECIFY WHEN ORDERING

MD-VETUS 8

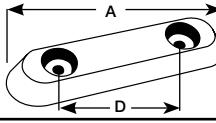
	PART#	A-LENGTH in (mm)	B-WIDTH in (mm)	C-DEPTH in (mm)	D-C/C in (mm)	WEIGHT LBS (KGS)
ZINC	MD-VETUS 8	1-3/4 (45)	1-3/4 (45)	--	--	2.20 (1.00)
ALUM	AMD-VETUS 8	1-3/4 (45)	1-3/4 (45)	--	--	1.00 (0.450)

MD-VETUS 15

	PART#	A-LENGTH in (mm)	B-WIDTH in (mm)	C-DEPTH in (mm)	D-C/C in (mm)	WEIGHT LBS (KGS)
ZINC	MD-VETUS 15	6 (150)	2-1/2 (60)	1-0 (25)	3-1/8 (80)	2.00 (0.910)
ALUM	AMD-VETUS 15	6 (150)	2-1/2 (60)	1-0 (25)	3-1/8 (80)	1.00 (0.450)

MD-VETUS 25

	PART#	A-LENGTH in (mm)	B-WIDTH in (mm)	C-DEPTH in (mm)	D-C/C in (mm)	WEIGHT LBS (KGS)
ZINC	MD-VETUS 25	9-1/2 (240)	2.40 (60)	1-1/4 (32)	5-1/2 (140)	5.10 (2.300)
ALUM	AMD-VETUS 25	9-1/2 (240)	2.40 (60)	1-1/4 (32)	5-1/2 (140)	2.50 (1.100)

MD-VETUS 35

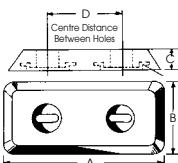
	PART#	A-LENGTH in (mm)	B-WIDTH in (mm)	C-DEPTH in (mm)	D-C/C in (mm)	WEIGHT LBS (KGS)
ZINC	MD-VETUS 35	13-3/4 (350)	2-7/8 (75)	1-1/4 (35)	7-7/8 (200)	10.0 (4.5)
ALUM	AMD-VETUS 35	13-3/4 (350)	2-7/8 (75)	1-1/4 (35)	7-7/8 (200)	3.85 (1.75)

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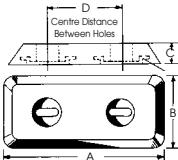
PLEASURE CRAFT HULL ANODES

BOLT ON ANODES



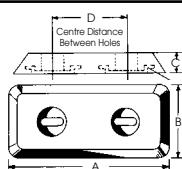
MD-ZHC-2

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



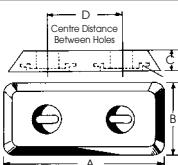
MD-ZHC-3H-HEAVY

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



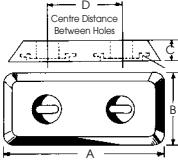
MD-DIVERS MINI 4X6 HEAVY

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



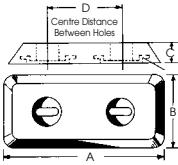
MD-ZHC-5

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



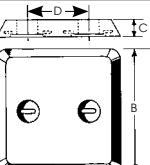
MD-ZHC-5-HEAVY

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



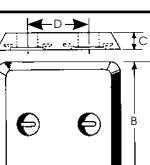
MD-ZHC-6

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

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

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

RELIANCE PRODUCTS - 100% MANUFACTURED IN NORTH AMERICA

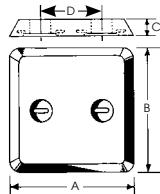
reliance

Pleasure Craft
Anodes



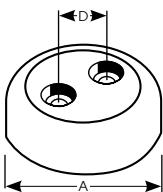
BOLT ON ANODES

PLEASURE CRAFT HULL ANODES



MD-6 X 6 DIVERS X-HEAVY

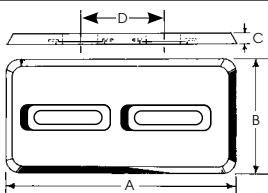
	PART#	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
ZINC	MD-6 X 6 DIVERS X-HEAVY	6-0 (152)	6-0 (152)	1-0 (25)	2-7/8 (73)	8.00 (3.63)
ALUM	AMD-DD-6 X 6 DIVERS X-HEAVY	6-0 (152)	6-0 (152)	1-0 (25)	2-7/8 (73)	2.96 (1.34)



MD-103862-14

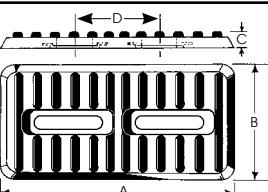
	PART#	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
ZINC	MD-103862-14	7-0 (178)	—	1-1/2 (38)	2-3/4 (69)	14.00 (6.35)
ALUM	AMD-103862-14	7-0 (178)	—	1-1/2 (38)	2-3/4 (69)	5.45 (2.47)

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



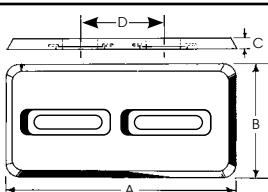
MD-DD-6 X 12 DIVERS

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



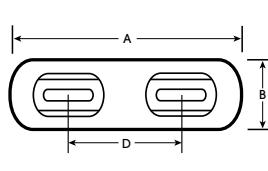
MD-DDX-6 X 12 DIVERS DLX

	PART#	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
ZINC	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

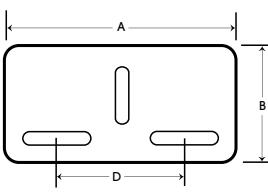
	PART#	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
ZINC	MD-DD 6X12 DIVERS HEAVY	12-0 (305)	6-0 (152)	3/4 (19)	5-1/2 (140)	10.5-11.5 (5.00)
ALUM	AMD-DD 6X12 DIVERS HEAVY	12-0 (305)	6-0 (152)	3/4 (19)	5-1/2 (140)	5.00 (2.27)



DIVERS SUPER HEAVY

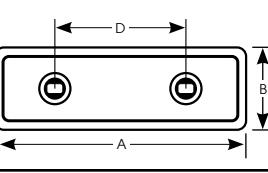
	PART#	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
ZINC	MD-DIVERS SUPER HEAVY	14-0 (356)	6-1/2 (165)	1.25 (32)	5-1/2 (140)	20.0 (9.07)
ALUM	AMD-DIVERS SUPER HEAVY	14-0 (356)	6-1/2 (165)	1.25 (32)	5-1/2 (140)	8.33 (3.78)

SLOTTED WITH ALUMINUM INSERT

NEW!

MD-Z-10 BAYLINER

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

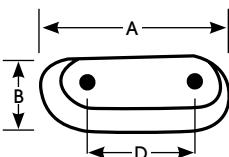


MD-21174476

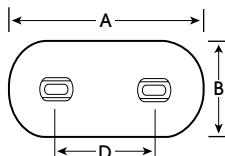
	PART#	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
ZINC	MD-21174476	16-1/2 (413)	3-7/8 (66)	1-1/2 (38)	5-1/2 (140)	13.5 (6.14)
ALUM	AMD-21174476	16-1/2 (413)	3-7/8 (66)	1-1/2 (38)	5-1/2 (140)	5.75 (2.61)

RELIANCE PRODUCTS - 100% MANUFACTURED IN NORTH AMERICA



BOLT ON ANODES**PLEASURE CRAFT HULL ANODES****MD-ZC-406 / MD-B-12**

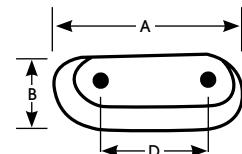
	PART#	A-LENGTH in (mm)	B-WIDTH in (mm)	C-DEPTH in (mm)	D-C/C in (mm)	WEIGHT LBS (KGS)
ZINC	MD-ZC-406 / Z-MD-B-12	8-5/8 (219)	4-1/4 (108)	1 (25)	5 (127)	8.35 (3.79)
ALUM	AMD-ZC406 / A-MD-B-12	8-5/8 (219)	4-1/4 (108)	1 (25)	5 (127)	3.00 (1.364)

**MD-B-19**

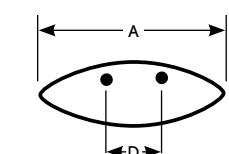
	PART#	A-LENGTH in (mm)	B-WIDTH in (mm)	C-DEPTH in (mm)	D-C/C in (mm)	WEIGHT LBS (KGS)
ZINC	MD-B-19	12 (305)	6 (152)	1.9 (48)	6.0 (152)	26.0 (11.79)
ALUM	AMD-B-19	12 (305)	6 (152)	1.9 (48)	6.0 (152)	9.63 (4.37)

SLOTTED WITH 5/8" X 1-1/4" ALUMINUM INSERTS

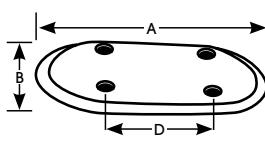
NEW

**MD-B-15**

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

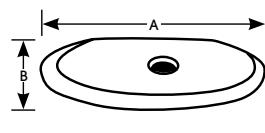
**MD-M-24**

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

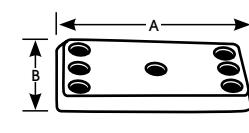
**MD-M-25 / MD-A-25**

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

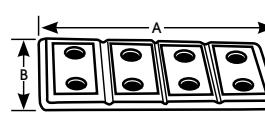
HORIZONTAL HOLE DISTANCE 3-7/8" • VERTICAL HOLE DISTANCE 1-13/16" TO 1-3/4" • HOLES ARE OVAL TO FIT BOTH

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

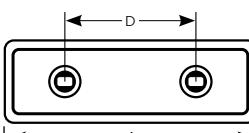
	PART#	A-LENGTH in (mm)	B-WIDTH in (mm)	C-DEPTH in (mm)	D-C/C in (mm)	WEIGHT LBS (KGS)
ZINC	MD-Z-404 / A-90 / MD-900	9-1/4 (235)	3-3/8 (86)	1-0 (25)	--	5.00 (2.270)
ALUM	AMD-Z-404 / A-90 / MD-900	9-1/4 (235)	3-3/8 (86)	1-0 (25)	--	2.10 (0.950)

**MD-M-30**

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

**MD-M-40**

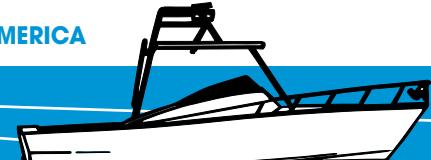
	PART#	A-LENGTH in (mm)	B-WIDTH in (mm)	C-DEPTH in (mm)	D-C/C in (mm)	WEIGHT LBS (KGS)
ZINC	MD-M-40	7-1/2 (191)	2-1/2 (63)	1/2 (13)	2.00 (50)	2.10 (0.960)
ALUM	AMD-M-40	7-1/2 (191)	2-1/2 (63)	1/2 (13)	2.00 (50)	1.10 (0.500)

**MD-40005875**

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

RELIANCE PRODUCTS - 100% MANUFACTURED IN NORTH AMERICA

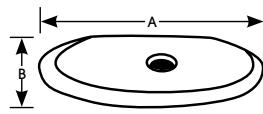
reliance



PLEASURE CRAFT HULL ANODES

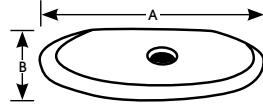
BOLT ON ANODES

MD-N-1



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

MD-N-1 HEAVY



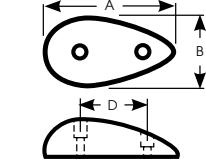
	PART#	A-LENGTH in (mm)	B-WIDTH in (mm)	C-DEPTH in (mm)	D-C/C in (mm)	WEIGHT LBS (KGS)
ZINC	MD-N-1 HEAVY	8-5/8 (219)	3-3/16 (84)	1-0 (25)	--	5.00 (2.270)
ALUM	AMD-N-1 HEAVY	8-5/8 (219)	3-3/16 (84)	1-0 (25)	--	2.17 (0.980)

Pleasure Craft Teardrop Anodes

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

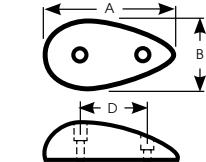
PLEASURE CRAFT TEAR DROP ANODES (FOR HULL)

MD-T-20



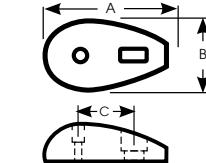
	PART#	A-LENGTH in (mm)	B-WIDTH in (mm)	C-DEPTH in (mm)	D-C/C in (mm)	WEIGHT LBS (KGS)
ZINC	MD-T-20	3-3/8 (86)	1-3/4 (44)	1/2 (13)	1-1/4 (35)	0.40 (0.182)
ALUM	AMD-T-20	3-3/8 (86)	1-3/4 (44)	1/2 (13)	1-1/4 (35)	0.14 (0.064)

MD-T-21



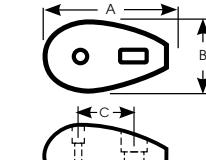
	PART#	A-LENGTH in (mm)	B-WIDTH in (mm)	C-DEPTH in (mm)	D-C/C in (mm)	WEIGHT LBS (KGS)
ZINC	MD-T-21	5-0 (127)	2-0 (50)	7/8 (23)	1-5/8 (41)	1.00 (0.455)
ALUM	AMD-T-21	5-0 (127)	2-0 (50)	7/8 (23)	1-5/8 (41)	0.39 (0.177)

MD-TD-S



	PART#	A-LENGTH in (mm)	B-WIDTH in (mm)	C-DEPTH in (mm)	D-C/C in (mm)	WEIGHT LBS (KGS)
ZINC	MD-TD-S	3-3/8 (86)	1-3/4 (44)	5/8 (16)	1-1/2 (38)	0.55 (0.250)
ALUM	AMD-TD-S	3-3/8 (86)	1-3/4 (44)	5/8 (16)	1-1/2 (38)	0.19 (0.010)

MD-TD-L



	PART#	A-LENGTH in (mm)	B-WIDTH in (mm)	C-DEPTH in (mm)	D-C/C in (mm)	WEIGHT LBS (KGS)
ZINC	MD-TD-L	4-1/2 (114)	2-0 (51)	3/4 (19)	2-1/8 (54)	0.95 (0.430)
ALUM	AMD-TD-L	4-1/2 (114)	2-0 (51)	3/4 (19)	2-1/8 (54)	0.43 (0.200)

RELIANCE PRODUCTS - 100% MANUFACTURED IN NORTH AMERICA



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

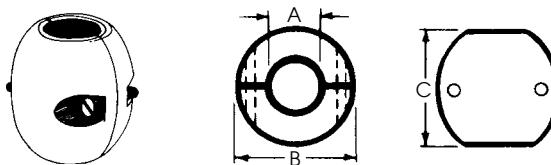


STREAMLINED SHAFT ANODES - MDX SERIES

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)
MDX-1 - 2 BOLT	1.13 (0.514)	AMDX-1 - 2 BOLT	0.44 (0.200)	3/4	(19)	2-1/8	(54)
MDX-2 - 2 BOLT	1.03 (0.468)	AMDX-2 - 2 BOLT	0.40 (0.182)	7/8	(22)	2-1/8	(54)
MDX-3 - 2 BOLT	0.98 (0.445)	AMDX-3 - 2 BOLT	0.38 (0.173)	1-0	(25)	2-1/8	(54)
MDX-4 - 2 BOLT	0.86 (0.391)	AMDX-4 - 2 BOLT	0.34 (0.155)	1-1/8	(29)	2-1/8	(54)
MDX-5 - 2 BOLT	1.17 (0.532)	AMDX-5 - 2 BOLT	0.46 (0.209)	1-1/4	(32)	2-3/8	(60)
MDX-6 - 4 BOLT	2.40 (1.090)	AMDX-6 - 4 BOLT	0.98 (0.440)	1-3/8	(35)	2-3/4	(70)
MDX-7 - 4 BOLT	2.20 (1.000)	AMDX-7 - 4 BOLT	0.89 (0.400)	1-1/2	(38)	2-3/4	(70)
MDX-8 - 4 BOLT	2.53 (1.150)	AMDX-8 - 4 BOLT	0.99 (0.450)	1-3/4	(44)	3-1/4	(83)
MDX-8A - 4 BOLT	2.01 (0.914)	AMDX-8A - 4 BOLT	0.79 (0.359)	1-7/8	(47)	3-1/4	(83)
MDX-9 - 4 BOLT	2.01 (0.914)	AMDX-9 - 4 BOLT	0.79 (0.359)	2-0	(51)	3-1/4	(83)
MDX-9A - 4 BOLT	6.48 (2.945)	AMDX-9A - 4 BOLT	-	2-1/8	(54)	4-1/4	(105)
MDX-10 - 4 BOLT	6.00 (2.720)	AMDX-10 - 4 BOLT	2.22 (1.010)	2-1/4	(57)	4-1/4	(105)
MDX-10A - 4 BOLT	5.58 (2.536)	AMDX-10A - 4 BOLT	2.18 (0.991)	2-3/8	(60)	4-1/4	(105)
MDX-11 - 4 BOLT	5.13 (2.332)	AMDX-11 - 4 BOLT	2.00 (0.909)	2-1/2	(64)	4-1/4	(105)
MDX-12 - 4 BOLT	6.92 (3.145)	AMDX-12 - 4 BOLT	2.70 (1.227)	2-3/4	(70)	4-3/4	(121)
MDX-13 - 4 BOLT	5.94 (2.700)	AMDX-13 - 4 BOLT	2.32 (1.055)	3-0	(76)	4-3/4	(121)
MDX-14 - 4 BOLT	11.10 (5.045)	AMDX-14 - 4 BOLT	4.33 (1.968)	3-1/4	(83)	5-5/8	(117)
MDX-15 - 4 BOLT	9.80 (4.455)	AMDX-15 - 4 BOLT	3.83 (1.741)	3-1/2	(89)	5-5/8	(117)
MDX-16 - 4 BOLT	8.50 (3.860)	AMDX-16 - 4 BOLT	3.15 (1.430)	3-3/4	(95)	5-5/8	(117)
MDX-17 - 4 BOLT	14.40 (6.530)	AMDX-17 - 4 BOLT	5.54 (2.510)	4-0	(102)	5-5/8	(117)
MDX-18 - 4 BOLT	11.5 (5.220)	AMDX-18 - 4 BOLT	4.60 (2.09)	4-1/2	(115)	6-3/4	(171)
MDX-20 - 4 BOLT	13.00 (5.900)	AMDX-20 - 4 BOLT	-	5-1/2	(140)	7-1/2	(190)

STREAMLINED SHAFT ANODES - MDX HEAVY SERIES 4 BOLT

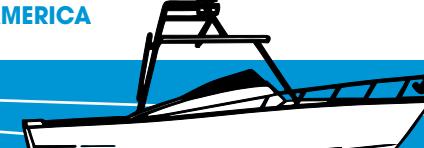
ZINC ANODES		ALUMINUM ANODES		NOMINAL DIMENSIONS			
TYPE NUMBER	NOM. WEIGHT lbs. (kgs.)	TYPE NUMBER	NOM. WEIGHT lbs. (kgs.)	A-SHAFT		B-DIAMETER	C-LENGTH
				in	(mm)	in	(mm)
MDX-0 - HEAVY - 2 BOLT	1.26 (0.573)	AMDX-0 - HEAVY - 2 BOLT	0.49 (0.223)	1/2	(13)	2-1/8	(54)
MDX-4 - HEAVY - 2 BOLT	1.60 (0.730)	AMDX-4 - HEAVY - 2 BOLT	0.95 (0.430)	1-1/8	(29)	2-3/8	(60)
MDX-5 - HEAVY - 4 BOLT	2.00 (0.907)	AMDX-5 - HEAVY - 4 BOLT	0.65 (0.295)	1-1/4	(32)	2-3/4	(70)
MDX-6 - HEAVY - 4 BOLT	3.31 (1.500)	AMDX-6 - HEAVY - 4 BOLT	1.27 (0.580)	1-3/8	(35)	3-1/4	(83)
MDX-7 - HEAVY - 4 BOLT	3.00 (1.360)	AMDX-7 - HEAVY - 4 BOLT	1.15 (0.520)	1-1/2	(38)	3-1/4	(83)
MDX-8 - HEAVY - 4 BOLT	4.05 (1.841)	AMDX-8 - HEAVY - 4 BOLT	1.58 (0.718)	1-3/4	(44)	3-9/16	(90)
MDX-9 - HEAVY - 4 BOLT	8.70 (3.950)	AMDX-9 - HEAVY - 4 BOLT	1.33 (0.605)	2-0	(51)	3-9/16	(90)
MDX-10 - HEAVY - 4 BOLT	8.70 (3.950)	AMDX-10 - HEAVY - 4 BOLT	3.22 (1.460)	2-1/4	(57)	4-3/4	(121)
MDX-11 - HEAVY - 4 BOLT	7.60 (3.450)	AMDX-11 - HEAVY - 4 BOLT	2.50 (1.136)	2-1/2	(64)	4-3/4	(121)
MDX-12 - HEAVY - 4 BOLT	13.0 (5.900)	AMDX-12 - HEAVY - 4 BOLT	5.00 (2.270)	2-3/4	(70)	5-5/8	(143)
MDX-13 - HEAVY - 4 BOLT	9.20 (4.170)	AMDX-13 - HEAVY - 4 BOLT	3.40 (1.540)	3-0	(76)	5	(127)
MDX-14 - HEAVY - 4 BOLT	18.0 (8.160)	AMDX-14 - HEAVY - 4 BOLT	8.00 (3.36)	3-1/4	(83)	6-3/4	(171)
MDX-15 - HEAVY - 4 BOLT	17.0 (7.710)	AMDX-15 - HEAVY - 4 BOLT	7.00 (3.18)	3-1/2	(89)	6-3/4	(171)
MDX-17 - HEAVY - 4 BOLT	14.4 (6.530)	AMDX-17 - HEAVY - 4 BOLT	5.54 (2.51)	4-0	(102)	6-3/4	(171)
MDX-19 - HEAVY - 4 BOLT	16.0 (7.260)	AMDX-19 - HEAVY - 4 BOLT	-	5-0	(127)	7-1/2	(190)



RELIANCE PRODUCTS - 100% MANUFACTURED IN NORTH AMERICA

reliance

Pleasure Craft
Anodes



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

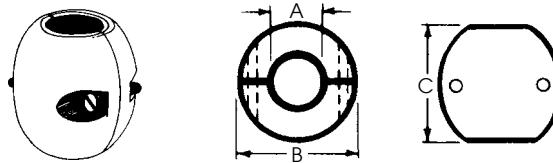
Slotted head with lock washer
& bolt retaining washer



STREAMLINED SHAFT ANODES - MDX 2 BOLT 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 - 2 BOLT	1.13 (0.514)	AMDX-1 - 2 BOLT	0.44 (0.200)	3/4 (19)	2-1/8 (54)	2-1/8 (54)	2-1/8 (54)
MDX-2 - 2 BOLT	1.03 (0.468)	AMDX-2 - 2 BOLT	0.40 (0.182)	7/8 (22)	2-1/8 (54)	2-1/8 (54)	2-1/8 (54)
MDX-3 - 2 BOLT	0.98 (0.445)	AMDX-3 - 2 BOLT	0.38 (0.173)	1-0 (25)	2-1/8 (54)	2-1/8 (54)	2-1/8 (54)
MDX-4 - 2 BOLT	0.86 (0.391)	AMDX-4 - 2 BOLT	0.34 (0.155)	1-1/8 (29)	2-1/8 (54)	2-1/8 (54)	2-1/8 (54)
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)	2-1/2 (64)
MDX-6 - 2 BOLT	1.42 (0.645)	AMDX-6 - 2 BOLT	0.55 (0.250)	1-3/8 (35)	3 (76)	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)	3 (76)	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)	3-3/8 (86)	2-7/8 (73)	2-7/8 (73)
MDX-9 - 2 BOLT	2.01 (0.914)	AMDX-9 - 2 BOLT	0.79 (0.359)	2-0 (51)	3-3/8 (86)	2-7/8 (73)	2-7/8 (73)
MDX-9A - 2 BOLT	6.48 (2.945)	AMDX-9A - 2 BOLT	-	2-1/8 (54)	4-1/2 (114)	3-3/4 (95)	3-3/4 (95)
MDX-10 - 2 BOLT	6.70 (3.010)	AMDX-10 - 2 BOLT	2.48 (1.120)	2-1/4 (57)	4-1/2 (114)	3-3/4 (95)	3-3/4 (95)
MDX-10A - 2 BOLT	5.58 (2.536)	AMDX-10A - 2 BOLT	2.18 (0.991)	2-3/8 (60)	4-1/2 (114)	3-3/4 (95)	3-3/4 (95)
MDX-11 - 2 BOLT	5.13 (2.332)	AMDX-11 - 2 BOLT	2.00 (0.909)	2-1/2 (64)	4-1/2 (114)	3-3/4 (95)	3-3/4 (95)
MDX-12 - 2 BOLT	6.92 (3.145)	AMDX-12 - 2 BOLT	2.70 (1.227)	2-3/4 (54)	4-3/4 (121)	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)	4-3/4 (121)
MDX-14 - 2 BOLT	11.10 (5.045)	AMDX-14 - 2 BOLT	4.33 (1.968)	3-1/4 (83)	5-5/8 (143)	3-7/8 (98)	3-7/8 (98)
MDX-15 - 2 BOLT	9.80 (4.455)	AMDX-15 - 2 BOLT	3.83 (1.741)	3-1/2 (89)	5-5/8 (143)	3-7/8 (98)	3-7/8 (98)
MDX-16 - 2 BOLT	8.50 (3.860)	AMDX-16 - 2 BOLT	3.15 (1.430)	3-3/4 (95)	5-5/8 (143)	3-7/8 (98)	3-7/8 (98)
MDX-17 - 2 BOLT	14.40 (6.530)	AMDX-17 - 2 BOLT	4.60 (2.09)	4-0 (102)	5-5/8 (143)	3-3/4 (95)	3-3/4 (95)

NEW

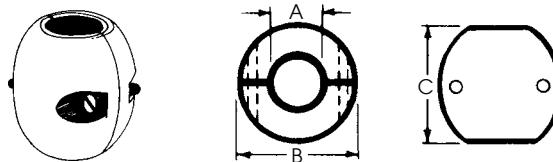


METRIC SIZES

STREAMLINED SHAFT ANODES - MDX METRIC 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
				(mm)	in (mm)	in (mm)	in (mm)
MDX-20MM - 2 BOLT	0.75 (0.340)	AMDX-20MM - 2 BOLT	0.29 (0.132)	20mm	2-1/8 (54)	3-3/4 (95)	3-3/4 (95)
MDX-25MM - 2 BOLT	0.98 (0.445)	AMDX-25MM - 2 BOLT	0.39 (0.177)	25mm	2-1/8 (54)	2-1/8 (54)	2-1/8 (54)
MDX-30MM - 4 BOLT	1.75 (0.795)	AMDX-30MM - 4 BOLT	0.68 (0.309)	30mm	2-1/2 (64)	2-3/8 (60)	2-3/8 (60)
MDX-35MM - 4 BOLT	1.50 (0.682)	AMDX-35MM - 4 BOLT	0.59 (0.268)	35mm	2-1/2 (64)	2-1/2 (64)	2-1/2 (64)
MDX-40MM - 4 BOLT	4.45 (2.023)	AMDX-40MM - 4 BOLT	1.74 (0.791)	40mm	3-9/16 (90)	2-7/8 (63)	2-7/8 (63)
MDX-45MM - 4 BOLT	4.05 (1.841)	AMDX-45MM - 4 BOLT	1.58 (0.718)	45mm	3-9/16 (90)	2-7/8 (63)	2-7/8 (63)
MDX-50MM - 4 BOLT	3.65 (1.659)	AMDX-50MM - 4 BOLT	1.43 (0.650)	50mm	3-9/16 (90)	2-7/8 (63)	2-7/8 (63)
MDX-60MM - 4 BOLT	5.60 (2.545)	AMDX-60MM - 4 BOLT	2.19 (0.900)	60mm	4-1/4 (108)	3-3/4 (95)	3-3/4 (95)
MDX-70MM - 4 BOLT	5.90 (2.680)	AMDX-70MM - 4 BOLT	2.40 (1.091)	70mm	Weights and Dimensions Available Jan 2023		
MDX-75MM - 4 BOLT	6.10 (2.773)	AMDX-75MM - 4 BOLT	2.60 (1.182)	75mm	4-3/4 (121)	3-5/8 (92)	3-5/8 (92)
MDX-80MM - 4 BOLT	8.20 (3.720)	AMDX-80MM - 4 BOLT	3.00 (1.360)	80mm	5-5/8 (143)	3-3/4 (95)	3-3/4 (95)
MDX-85MM - 4 BOLT	-	AMDX-85MM - 4 BOLT	-	85mm	Weights and Dimensions Available Jan 2023		

NEW



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 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



MDG - EURO STYLE SHAFT ANODES

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)
MDG-34 (2 BOLT)	1.98 (0.90)	AMGD-34	0.76 (0.35)	3/4	(19)	2-1/4	(56)
MDG-78 (2 BOLT)	- -	AMGD-78	- -	7/8	(22)	- -	- -
MDG-1 (2 BOLT)	1.80 (0.82)	AMGD-1	0.69 (0.31)	1.0	(25.4)	2-1/4	(56)
MDG-118 (2 BOLT)	1.63 (0.74)	AMGD-118	0.63 (0.29)	1-1/8	(29)	2-1/4	(56)
MDG-114 (2 BOLT)	3.79 (1.72)	AMGD-114	1.46 (0.66)	1-1/4	(32)	3.0	(75)
MDG-138 (2 BOLT)	3.60 (1.635)	AMGD-138	1.40 (0.64)	1-3/8	(34.8)	3.0	(75)
MDG-112 (2 BOLT)	3.41 (1.55)	AMGD-112	1.33 (0.603)	1-1/2	(38)	3.0	(75)
MDG-134 (4 BOLT)	6.72 (3.05)	AMGD-134	2.60 (1.18)	1-3/4	(44.4)	3-1/2	(90)
MDG-2 (4 BOLT)	6.00 (2.73)	AMGD-2	2.32 (1.06)	2.0	(51)	3-1/2	(90)
						3-7/8	(100)
						3-7/8	(100)

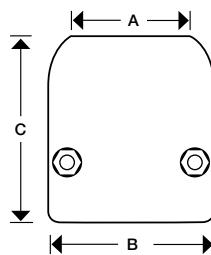
NEW

MDG METRIC SERIES - EURO STYLE SHAFT ANODES

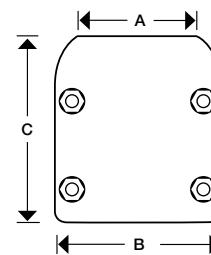
ZINC ANODES		ALUMINUM ANODES		NOMINAL DIMENSIONS			
TYPE NUMBER	NOM. WEIGHT lbs. (kgs.)	TYPE NUMBER	NOM. WEIGHT lbs. (kgs.)	A-SHAFT		B-DIAMETER	C-LENGTH
				in	(mm)	in	(mm)
MDG-25MM (2 BOLT)	1.80 (0.82)	AMGD-25MM	0.69 (0.31)	1.0	(25)	2-1/4	(56)
MDG-30MM (2 BOLT)	1.60 (0.73)	AMGD-30MM	0.60 (0.27)	1-1/8	(30)	2-1/4	(56)
MDG-35MM (2 BOLT)	3.60 (1.63)	AMGD-35MM	1.39 (0.63)	1-3/8	(35)	3.0	(75)
MDG-40MM (2 BOLT)	3.28 (1.49)	AMGD-40MM	1.27 (0.576)	1-1/2	(40)	3.0	(75)
MDG-45MM (4 BOLT)	6.66 (3.02)	AMGD-45MM	2.58 (1.17)	1-3/4	(45)	3-1/2	(90)
MDG-50MM (4 BOLT)	6.11 (2.78)	AMGD-50MM	2.36 (1.08)	2.0	(50)	3-1/2	(90)
MDG-60MM (4 BOLT)	4.82 (2.18)	AMGD-60MM	1.87 (0.85)	2-3/8	(60)	3-1/2	(90)
MDG-70MM (4 BOLT)	- -	AMGD-70MM	- -	-	(70)	- -	- -

NEW

MDG 2 BOLT EURO STYLE SHAFT ANODE



MDG 4 BOLT EURO STYLE SHAFT ANODE



Pleasure Craft Rudder Anodes

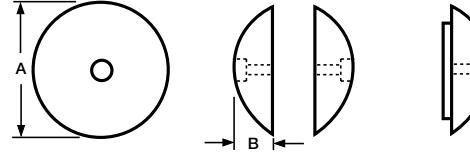
Consist of two anodes for mounting on each side of the rudder. Supplied with stainless slot head screws. Socket cap screws on request. Halves available with nut.

PLEASURE CRAFT RUDDER ANODES

ZINC ANODES		ALUMINUM ANODES		NOMINAL DIMENSIONS			
TYPE NUMBER	NOM. WEIGHT lbs. (kg)	TYPE NUMBER	NOM. WEIGHT lbs. (kg)	A DIAMETER		DIMENSION B	
				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	1.00 (0.450)	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)
MDR-8	6.60 (3.000)	AMDR-8	2.58 (1.170)	7-1/2	(190)	1-0	(25)

NEW

RUDDER ANODE



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

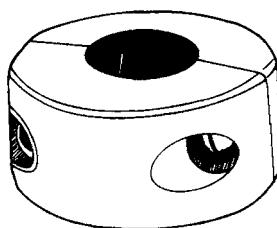
ZINC ANODES		ALUMINUM ANODES		NOMINAL DIMENSIONS					
TYPE NUMBER	Ibs. (kg)	NOM. WEIGHT TYPE NUMBER	Ibs. (kg)	NOM. WEIGHT		A-SHAFT DIA. in (mm)	B-DIAMETER in (mm)	C-THICKNESS In (mm)	
				AMDC-A	0.39 (0.177)				
MDC-A	0.90	(0.410)	AMDC-A	0.39	(0.177)	3/4 (19)	2-1/2 (60)	5/8 (15)	
MDC-1	0.67	(0.305)	AMDC-1	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 (164)	1-1/2 (38)	
MDC-15	6.70	(3.045)	AMDC-15	2.62	(1.191)	4-0 (100)	6-1/2 (164)	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

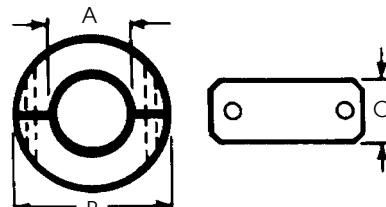
ZINC ANODES		ALUMINUM ANODES		NOMINAL DIMENSIONS					
TYPE NUMBER	Ibs. (kg)	NOM. WEIGHT TYPE NUMBER	Ibs. (kg)	NOM. WEIGHT		A-SHAFT DIA. in (mm)	B-DIAMETER in (mm)	C-THICKNESS In (mm)	
				AMDC-0 - HEAVY	0.27 (0.123)				
MDC-0 - HEAVY	0.70	(0.318)	AMDC-0 - HEAVY	0.27	(0.123)	1/2 (13)	2-1/8 (54)	1-0 (25)	
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-9 - HEAVY	5.60	(2.545)	AMDC-9 - HEAVY	-	-	2-0 (51)	5-0 (127)	1-1/2 (38)	
MDC-9A - HEAVY	5.30	(2.409)	AMDC-9A - HEAVY	-	-	2-1/4 (57)	5-0 (127)	1-1/2 (38)	

METRIC SIZES

ZINC ANODES		ALUMINUM ANODES		NOMINAL DIMENSIONS					
TYPE NUMBER	Ibs. (kg)	NOM. WEIGHT TYPE NUMBER	Ibs. (kg)	NOM. WEIGHT		A-SHAFT DIA. in (mm)	B-DIAMETER in (mm)	C-THICKNESS In (mm)	
				AMDC-20	0.50 (0.230)				
MDC-20	1.00	(0.450)	AMDC-20	0.50	(0.230)	20mm	2-1/8 (54)	1-1/4 (33)	
MDC-25	1.05	(0.477)	AMDC-25	0.52	(0.236)	25mm	2-1/8 (54)	1-1/4 (33)	
MDC-30	1.10	(0.500)	AMDC-30	0.47	(0.214)	30mm	2-1/8 (54)	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

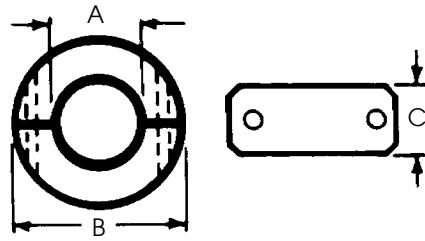
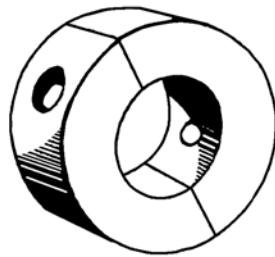


RELIANCE PRODUCTS - 100% MANUFACTURED IN NORTH AMERICA

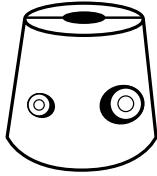


BENETEAU LC EURO COLLAR ANODES

ZINC ANODES		ALUMINUM ANODES		NOMINAL DIMENSIONS		
TYPE NUMBER	NOM. WEIGHT lbs. (kg)	TYPE NUMBER	NOM. WEIGHT lbs. (kg)	A-SHAFT DIA.	B-DIAMETER	C-THICKNESS
				in (mm)	in (mm)	in (mm)
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)

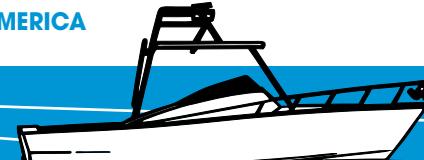
**BENETEAU STD LC COLLAR ANODES**

ZINC ANODES		ALUMINUM ANODES		NOMINAL DIMENSIONS		
TYPE NUMBER	NOM. WEIGHT lbs. (kg)	TYPE NUMBER	NOM. WEIGHT lbs. (kg)	A-SHAFT DIA.	B-DIAMETER	C-THICKNESS
				in (mm)	in (mm)	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 (38MM)	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 (44MM)	3-5/8 (92)	11/16 (18)
MD-BEN STD LC 2"	1.25 (0.570)	AMD-BEN STD LC 2"	0.54 (0.240)	2 (51MM)	3-5/8 (92)	11/16 (18)

**MD-XO-DE-ICER 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

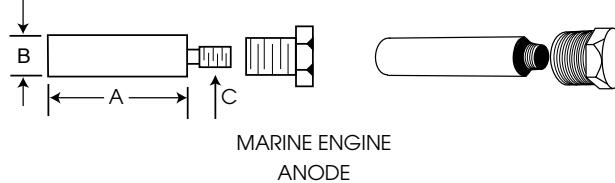
Reliance MDE Series Marine Anodes
consist of a brass plug with anode attached.

PLEASURE CRAFT MARINE ENGINE ANODES (WITH BRASS PLUG)

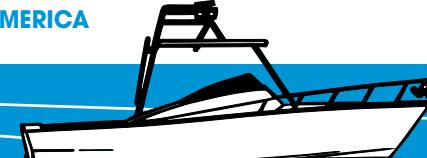
TYPE NUMBER	LBS. (kg)	NOM. WEIGHT (kg)	NOMINAL DIMENSIONS				
			A-LENGTH in (mm)	B-DIAMETER in (mm)	PLUG OD (NPT) in (mm)	C-PLUG THREAD INT.	
ENGINE ANODES - COMPLETE WITH BRASS PLUG							
MDE-00 - COMPLETE	0.05 (0.023)	2-0 (50)	1/4 (6)	1/8 (3)	1/4-20 NC		
MDE-0 - COMPLETE	0.05 (0.023)	1-3/4 (44)	3/8 (10)	1/4 (6)	5/16-18 NC		
MDE-0B - COMPLETE	0.04 (0.020)	3/4 (19)	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)	1/4-20 NC		
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)	5/16-18 NC		
MDE-OAZ	0.08 (0.036)	2-1/2 (64)	3/8 (10)	1/4 (6)	5/16-18 NC		
MDE-OHZ	0.08 (0.036)	2-1/2 (64)	3/8 (10)	1/4 (6)	3/8-16 NC		
MDE-1Z	0.08 (0.036)	2-0 (50)	1/2 (13)	3/8 (10)	3/8-16 UNC		
MDE-1DZ	0.07 (0.030)	1-3/4 (45)	1/2 (13)	3/8 (10)	3/8-16 UNC		
MDE-1EZ	0.09 (0.041)	1-1/2 (38)	1/2 (13)	3/8 (10)	3/8-16 UNC		
MDE-1FZ	0.07 (0.032)	1-1/4 (32)	1/2 (13)	3/8 (10)	3/8-16 UNC		
MDE-1GZ	0.06 (0.027)	1 (25)	1/2 (13)	3/8 (10)	3/8-16 NC		
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 (0.404)	3/4"



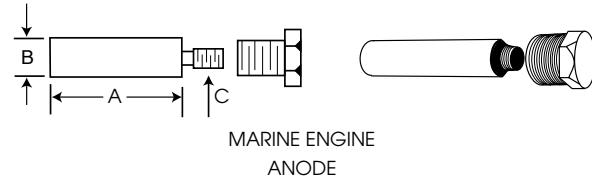
RELIANCE PRODUCTS - 100% MANUFACTURED IN NORTH AMERICA



Reliance Engine Anodes consist of a brass plug with anode attached

PLEASURE CRAFT CATERPILLAR ENGINE ANODES

ZINC ANODES		NOM. WEIGHT lbs. (kg)	NOMINAL DIMENSIONS				
TYPE NUMBER			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 (10)	3/8-16 UNC	
CAT 6L 2281	0.14 (0.064)	1-1/2 (38)	1/2 (13)	3/8 (10)	3/8 (10)	3/8-16 UNC	
CAT 6L 2283	0.08 (0.036)	2-1/2 (64)	3/8 (10)	1/4 (6)	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)	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)	1-1/4 (32)	3/4-10 UNC	
CAT 6L 2288	0.16 (0.010)	2-0 (50)	5/8 (16)	1/2 (13)	1/2 (13)	7/16-14 UNC	
CAT 6L 2289	0.26 (0.118)	3 (76)	5/8 (16)	1/2 (13)	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)	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 (10)	3/8-16 UNC	
CAT 6L 2281Z	0.09 (0.041)	1-1/2 (38)	1/2 (13)	3/8 (10)	3/8 (10)	3/8-16 UNC	
CAT 6L 2283Z	0.08 (0.036)	2-1/2 (64)	3/8 (10)	1/4 (6)	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)	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)	1-1/4 (32)	3/4-10 UNC	
CAT 6L 2288Z	0.16 (0.010)	2-0 (50)	5/8 (16)	1/2 (13)	1/2 (13)	7/16-14 UNC	
CAT 6L 2289Z	0.15 (0.068)	3 (76)	5/8 (16)	1/2 (13)	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)

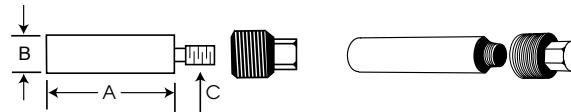
NEW

ZINC ANODES		NOM. WEIGHT lbs. (kg)	NOMINAL DIMENSIONS				
TYPE NUMBER			A-LENGTH in (mm)	B-DIAMETER in (mm)	PLUG OD (NPT) in (mm)	C-PLUG THREAD INT.	
MD-8515842	0.25 (0.11)	2-1/8 (54)	3/4 (19)	3/4 (19)	3/4 (19)	5/8-11 UNC	
MD-8515850	0.38 (0.17)	3-3/8 (86)	3/4 (19)	3/4 (19)	3/4 (19)	5/8-11 UNC	
MD-8517479	0.16 (0.07)	2-0 (50)	5/8 (16)	1/2 (13)	1/2 (13)	7/16-14 UNC	
MD-8925832	0.08 (0.036)	1-1/2 (38)	1/2 (13)	3/8 (10)	3/8 (10)	3/8-16 UNC	

DETROIT DIESEL ENGINE ZINC ANODE - COMPLETE WITH BRASS PLUG

NEW

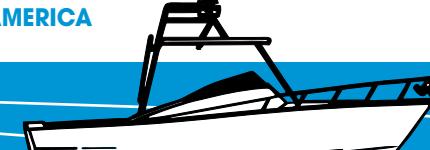
ZINC ANODES		NOM. WEIGHT lbs. (kg)	NOMINAL DIMENSIONS				
TYPE NUMBER			A-LENGTH in (mm)	B-DIAMETER in (mm)	PLUG OD (NPT) in (mm)	C-PLUG THREAD INT.	
MD-8515842C	0.53 (0.24)	2-1/8 (54)	3/4 (19)	3/4 (19)	3/4 (19)	5/8-11 UNC	
MD-8515850C	0.53 (0.24)	3-3/8 (86)	3/4 (19)	3/4 (19)	3/4 (19)	5/8-11 UNC	
MD-8517479C	0.30 (0.14)	2-0 (50)	5/8 (16)	1/2 (13)	1/2 (13)	7/16-14 UNC	
MD-8925832C	0.25 (0.11)	1-1/2 (38)	1/2 (13)	3/8 (10)	3/8 (10)	3/8-16 UNC	



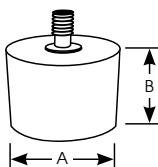
RELIANCE PRODUCTS - 100% MANUFACTURED IN NORTH AMERICA

reliance

Pleasure Craft
Anodes



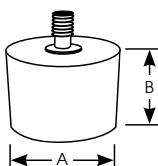
GALVION ZINC ANODES

**MD-ZDM-500**

	A - DIAMETER	B - LENGTH	INT THREAD	BRASS PLUG NPT	WEIGHT
TYPE NUMBER	IN (MM)	IN (MM)		IN (MM)	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**

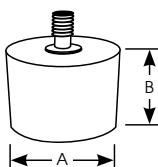
	NPT	WRENCH SIZE	INT THREAD	WEIGHT
TYPE NUMBER	IN (MM)	IN (MM)		LBS (KGS)
MD-ZDM-500 BRASS PLUG	3/8" (10)	3/4" (19)	12 - 28	0.08 (0.036)

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

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

**MD-ZDM-625 BRASS PLUG**

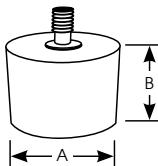
	NPT	WRENCH SIZE	INT THREAD	WEIGHT
TYPE NUMBER	IN (MM)	IN (MM)		LBS (KGS)
MD-ZDM-625 BRASS PLUG	0.500 (13)	1.00 (25)	12 - 28	0.57 (0.020)

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

	A - DIAMETER	B - LENGTH	INT THREAD	BRASS PLUG NPT	WEIGHT
TYPE NUMBER	IN (MM)	IN (MM)		IN (MM)	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**

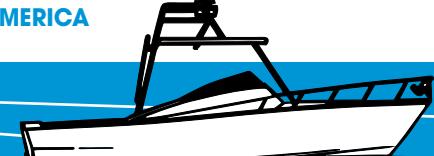
	NPT	WRENCH SIZE	INT THREAD	WEIGHT
TYPE NUMBER	IN (MM)	IN (MM)		LBS (KGS)
MD-ZDM-825 BRASS PLUG	3/4 (19)	1-1/4 (21)	12 - 28	0.34 (0.14)

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

	A - DIAMETER	B - LENGTH	INT THREAD	BRASS PLUG NPT	WEIGHT
TYPE NUMBER	IN (MM)	IN (MM)		IN (MM)	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	WRENCH SIZE	INT THREAD	WEIGHT
TYPE NUMBER	IN (MM)	IN (MM)		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

Reliance Engine Anodes consist of a brass plug with anode attached

VOLVO PENTA DIESEL ENGINE ZINC ANODES

ZINC ANODES	NOM. WEIGHT	NOMINAL DIMENSIONS				
		A-LENGTH	B-DIAMETER	PLUG OD (NPT)	C-PLUG	
TYPE NUMBER	lbs. (kg)	in (mm)	in (mm)	in (mm)	in (mm)	THREAD INT.
MD-838929	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



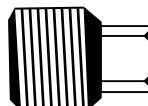
MD-3858995

PLUGS FOR VOLVO PENTA DIESEL ENGINE ZINC ANODES

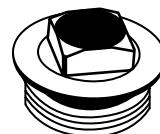
ZINC ANODES	NOM. WEIGHT	NOMINAL DIMENSIONS		WRENCH
		SIZE		
TYPE NUMBER	lbs. (kg)			
MALE PLUG FOR MD-838929	0.09 (0.041)	1/2" NPT	STUD THREAD M8	13MM
FEMALE PLUG FOR MD-823661	0.32 (0.145)	1/2" NPT	INTERNAL THREAD 7/16" UNC	13MM
BRASS PLUG FOR MD-3858995	0.14 (0.060)	1" NPT	INTERNAL THREAD 3/8" UNC	3/4 IN



MALE PLUG FOR MD-838929



FEMALE PLUG FOR MD-838929

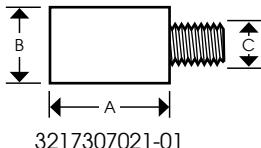


BRASS PLUG FOR MD-823661

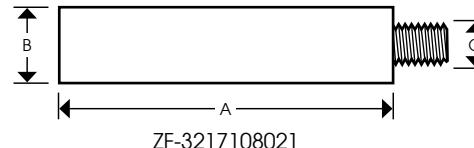


ZF TRANSMISSION ZINC ANODES

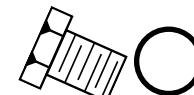
ZINC ANODES	NOM. WEIGHT	NOMINAL DIMENSIONS				
		A-LENGTH	B-DIAMETER	PLUG OD (NPT)	C-PLUG	
TYPE NUMBER	lbs. (kg)	in (mm)	in (mm)	in (mm)	in (mm)	THREAD INT.
3217307021-01	0.21 (0.095)	3/4 (20)	5/8 (15)	-	-	5/16-18 UNC
3217108021	0.16 (0.010)	2-1/2 (64)	5/8 (15)	-	-	5/16-18 UNC
BRASS PLUG FOR 3217307021-01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



3217307021-01



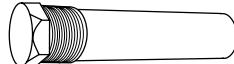
ZF-3217108021



BRASS PLUG FOR ZF TRANSMISSION

MASE MARINE GENERATORS ZINC ANODE (WITH BRASS PLUG)

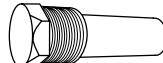
ZINC ANODES	NOM. WEIGHT	NOMINAL DIMENSIONS				
		A-LENGTH	B-DIAMETER	PLUG OD (NPT)	C-PLUG	
TYPE NUMBER	lbs. (kg)	in (mm)	in (mm)	in (mm)	in (mm)	THREAD INT.
MD-80162	0.07 (0.030)	3/4 (19)	3/8 (10)	1/4 (6)	-	5/16-18 UNC



MD-80162

NANNI ENGINE ZINC ANODE (WITH BRASS PLUG)

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



MD-N494635

 **reliance**

Pleasure 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

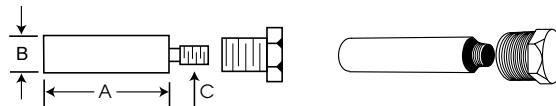
YANMAR ANODES COMPLETE WITH BRASS PLUG

ZINC ANODES		NOMINAL DIMENSIONS				
NOM. WEIGHT		A-LENGTH	B-DIAMETER	PLUG OD (NPT)	C-PLUG	
TYPE NUMBER	lbs. (kg)	in (mm)	in (mm)	in (mm)	in (mm)	THREAD INT.
YANMAR 119574-18790	0.18 (0.073)	2 (50)	5/8 (16)	1/2 (13)	3/8 (10)	7/16-14 UNC
YANMAR 119574-44150	0.13 (0.059)	1-1/4 (30)	1/2 (13)	3/8 (10)	11/16 (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

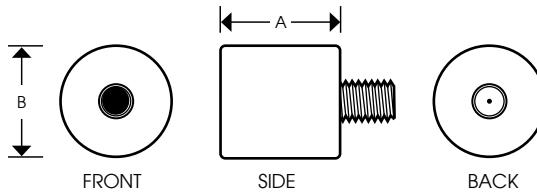
ZINC ANODES		NOMINAL DIMENSIONS				
NOM. WEIGHT		A-LENGTH	B-DIAMETER	PLUG OD (NPT)	C-PLUG	
TYPE NUMBER	lbs. (kg)	in (mm)	in (mm)	in (mm)	in (mm)	THREAD INT.
YANMAR 119574-18790	0.16 (0.073)	2 (50)	5/8 (16)	1/2 (13)	3/8 (10)	7/16-14 UNC
YANMAR 119574-44150	0.13 (0.059)	1-1/4 (30)	1/2 (13)	3/8 (10)	11/16 (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



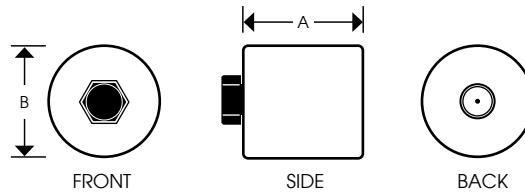
REFERENCE ZINC ANODES

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)	
MD-RZG-1	0.15 (0.07)	AMD-RZG-1	0.06 (0.03)	3/4 (20)	3/4 (20)	
MD-RZG-2-21	0.09 (0.04)	AMD-RZG-2-21	0.03 (0.01)	3/4 (20)	3/4 (20)	
MD-RZG-2-25	0.15 (0.07)	AMD-RZG-2-25	0.06 (0.03)	3/4 (20)	7/8 (22)	
MD-RZG-2-27.5	0.17 (0.08)	AMD-RZG-2-27.5	0.07 (0.04)	3/4 (20)	1-1/8 (25)	

NEW

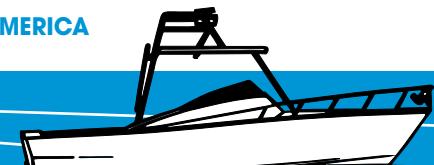


MD-RZG-1



MD-RZG-2-21
MD-RZG-2-25
MD-RZG-2-27.5

RELIANCE PRODUCTS - 100% MANUFACTURED IN NORTH AMERICA

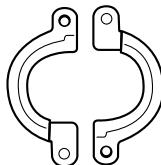


BOLT ON

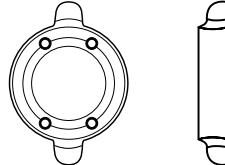
PLEASURE CRAFT YANMAR

ZINC ANODES		ALUMINUM ANODES		LENGTH	
TYPE NUMBER	NOM. WEIGHT lbs. (kg)	TYPE NUMBER	NOM. WEIGHT lbs. (kg)	in	(mm)
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)

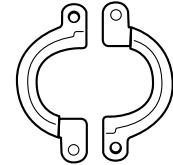
YANMAR
SAILDRIVE
196440-02660



YANMAR
196420-02652



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



ZINC FOR SALT WATER

ALUMINUM FOR SALT AND BRACKISH WATER

Keel Cooler Anodes

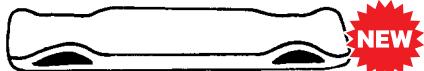
Reliance Anodes for Keel Coolers are designed to provide maximum protection to your fresh water cooling system, by protecting the heat exchanger from salt water galvanic corrosion.

KEEL COOLER ANODES

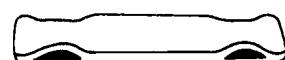
ZINC ANODES		ALUMINUM ANODES		NOMINAL DIMENSIONS			
TYPE NUMBER	NOM. WEIGHT lbs. (kg)	TYPE NUMBER	NOM. WEIGHT lbs. (kg)	A-LENGTH in (mm)	B-WIDTH in (mm)		
MD-KK-1	1.10 (0.500)	AMD-AKK-1	0.40 (0.182)	2-5/8 (67)	2-3/4 (70)		
MD-KK-2	1.25 (0.568)	AMD-AKK-2	0.48 (0.218)	2-3/4 (70)	3-1/4 (83)		
MD-KK-3	3.25 (1.477)	AMD-AKK-3	1.18 (0.536)	3-7/8 (98)	3-1/2 (89)		
MD-X-45-3	0.25 (0.114)	AMD-AX-45-3	0.09 (0.041)	3-1/4 (83)	3-7/8 (98)		
MD-X-47-3	0.75 (0.341)	AMD-AX-47-3	0.29 (0.132)	6-3/4 (171)	1-1/4 (32)		
MD-X-52-3	3.00 (1.360)	AMD-AX-52-3	1.15 (0.520)	12-1/4 (311)	2.00 (50)		
MD-X-58	0.75 (0.341)	AMD-AX-58	0.27 (0.123)	6-3/8 (162)	1 (25)		NEW



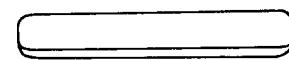
X-45-3



X-52-3



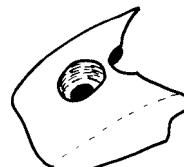
X-47-3



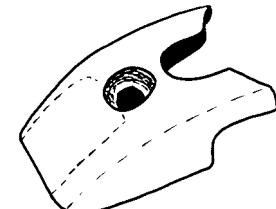
X-58



KK-1



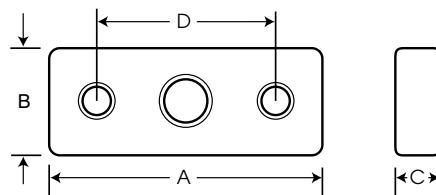
KK-2



KK-3

FERNSTRUM KEEL COOLER ANODES

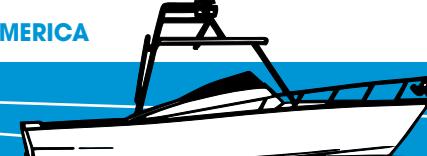
ZINC ANODES		ALUMINUM ANODES		NOMINAL DIMENSIONS				
TYPE NUMBER	NOM. WEIGHT lbs. (kg)	TYPE NUMBER	NOM. WEIGHT lbs. (kg)	A-LENGTH IN (MM)	B-WIDTH IN (MM)	C-THICKNESS IN (MM)	D-HOLE DISTANCE IN (MM)	HOLE DIAMETER IN (MM)
MD-1274A	2.20 (1.00)	AMD-1274A	0.88 (0.40)	5.00 (127)	2.00 (50)	1-1/16 (30)	3-1/4 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 (1823)	2.00 (50)	1-1/16 (30)	4 c/c (101) c/c	9/16 (14)



RELIANCE PRODUCTS - 100% MANUFACTURED IN NORTH AMERICA

reliance

Pleasure Craft
Anodes



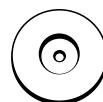
ZINC FOR SALT WATER
ALUMINUM FOR SALT
AND BRACKISH WATER

Anodes For Suzuki & Nissan/Tohatsu

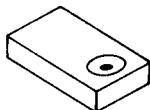
These Reliance Outdrive Anodes are direct replacement components for Suzuki and Nissan/Tohatsu engines and meet specifications of anodes on original equipment.

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	.20 (.08)	AMD55320-95310	.10 (.05)	55-140	
MD55125-96310	.27 (.12)	AMD55125-96310	.10 (.05)	20-30	
MD55125-87D00	.75 (.34)	AMD55125-87D00	.28 (.13)	150-200	M10 x 1.25
MD55321-94900	1.77 (.80)	N/A	N/A		



MD-55321-87J00



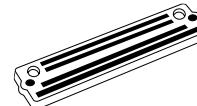
MD-55320-95310



MD-55125-87D00



MD-55125-96310



MD-3C7602181

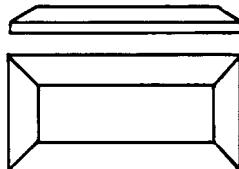
PLEASURE CRAFT ANODES FOR NISSAN/TOHATSU OUTDRIVES

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

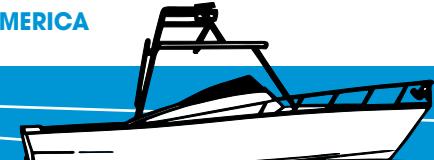
ZINC & ALUMINUM PLATES WITH OR WITHOUT BONDING WIRE

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

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ZINC FOR SALT WATER

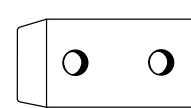
ALUMINUM FOR SALT AND BRACKISH WATER

Anodes For Yamaha Outdrives

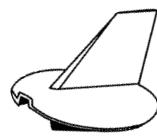
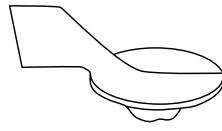
These Reliance Outdrive Anodes are direct replacement components for Yamaha engines and meet specifications of anodes on original equipment.

PLEASURE CRAFT ANODES FOR YAMAHA OUTDRIVES

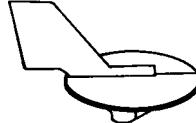
ZINC ANODES			ALUMINUM ANODES		
		NOM. WEIGHT			NOM. WEIGHT
TYPE NUMBER	lbs. (kg)	TYPE NUMBER	lbs. (kg)	HORSEPOWER	THREAD SIZE
MD-6E5-45251-00	0.30 (0.136)	AMD-6E5-45251-00	0.12 (0.055)	115-120	M10 x 1.25
MD-6K1-45371-00	0.89 (0.405)	AMD-6K1-45371-00	0.35 (0.159)	90-200	M10 x 1.25
MD-6E5-45371-01	0.94 (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	-	200-350	

NEW

MD-6E5-45251-00

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

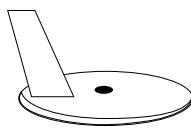
MD-688-45371-02



MD-6J9-45371-00



MD-688-45251-01



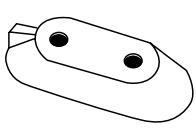
MD-664-45371-01



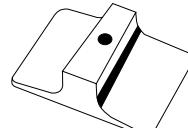
MD-6H1-45251-02



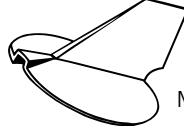
MD-6G5-45251-01



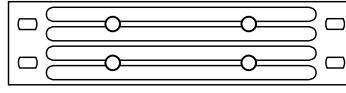
MD-6E0-45251-11



MD-61N-45251-01



MD-61A-45371-00

MD-6AW-45251-00
NEW**YAMAHA OUTDRIVES KITS****Yamaha Kits**

AVAILABLE IN ZINC & ALUMINUM

MDY150KIT

- 1 - MD-6G5-45251-01
- 1 - MD-6J9-45371-00

Fits Yamaha 150-200 HP Outboards

**MDY150CRKIT**

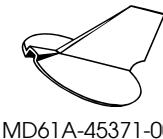
- 1 - MD-6G5-45251-01
- 1 - MD-6K1-45371-00

Fits Yamaha 150-200 HP Outboards (Counter Rotation)

**MDY200250KIT**

- 1 - MD-6G5-45251-01
- 1 - MD-61A-45371-00

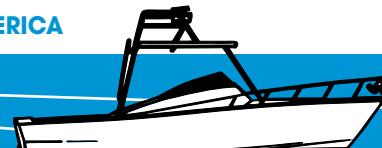
Fits Yamaha 200-250 HP Outboards

**MDY6090KIT**

- 1 - MD-688-45371-02
- 1 - MD-6H1-45251-02

**NEW**

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reliance**Pleasure Craft
Anodes**

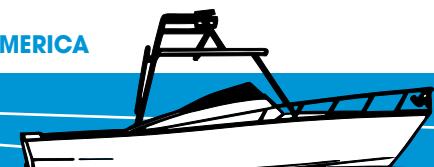
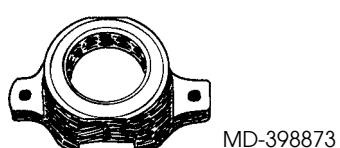
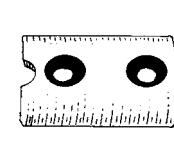
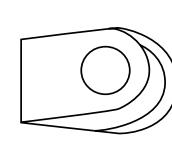
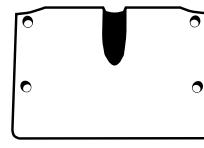
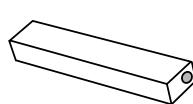
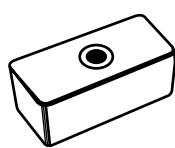
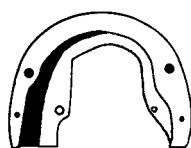
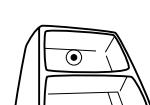
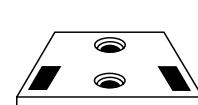
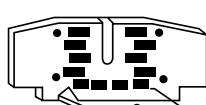
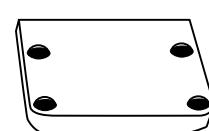
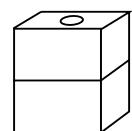
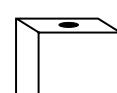
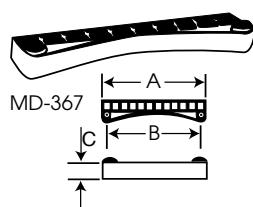
ZINC FOR SALT WATER
ALUMINUM FOR SALT
AND BRACKISH WATER

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 (0.020)	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



RELIANCE PRODUCTS - 100% MANUFACTURED IN NORTH AMERICA

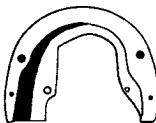
ZINC FOR SALT WATER
ALUMINUM FOR SALT
AND BRACKISH WATER

BRP™ (OMC/Johnson Evinrude) Anode Kits

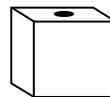
AVAILABLE IN ZINC & ALUMINUM

BRP OMC STRINGER KIT

- 1 - MD-983494
1 - MD-393023
1 - MD-431708



MD-983494



MD-393023



MD-431708

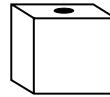
NEW

BRP OMC COBRA KIT

- 1 - MD-984513
1 - MD-393023
1 - MD-431708



MD-984513



MD-393023

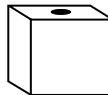


MD-431708

NEW

BRP OMC 50-75HP KIT

- 1 - MD-393023
1 - MD-392462



MD-393023

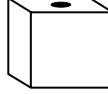


MD-392462

NEW

BRP OMC V4-V6 KIT

- 1 - MD-393023
1 - MD-392123



MD-393023



MD-392123

NEW

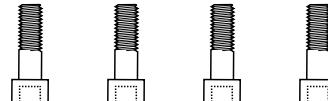
ZINC FOR SALT WATER

ALUMINUM FOR SALT AND BRACKISH WATER

Individual Anode Kits

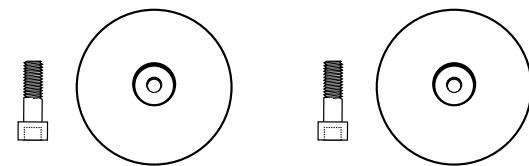
BNT - 1 BENNET TRIM TAB ZINC ANODE KIT (2 PER KIT) - ZINC ALUMINUM

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)

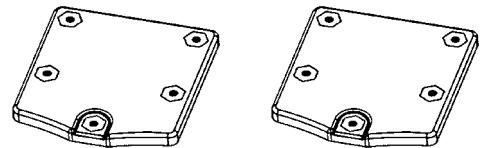
ZINC ANODES		ALUMINUM ANODES	
TYPE NUMBER	NOM. WEIGHT lbs. (kg)	TYPE NUMBER	NOM. WEIGHT lbs. (kg)
MD-FF-2 PROP	1.00 (0.45)	AMD-FF-2 PROP	0.45 (0.20)



MD-FF-2 PROP

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

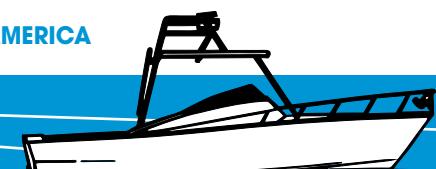
ZINC ANODE		ALUMINUM ANODE	
Height	6-1/4" (160mm)	Height	6-1/4" (160mm)
Width	5-3/4" (145mm)	Width	5-3/4" (145mm)
Thickness	1/2" (13mm)	Thickness	1/2" (13mm)
Weight	4.6 lbs (2.09kg)	Weight	2 lbs (0.91kg)



RELIANCE PRODUCTS - 100% MANUFACTURED IN NORTH AMERICA

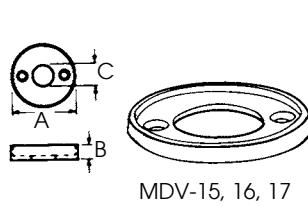
reliance

Pleasure Craft
Anodes



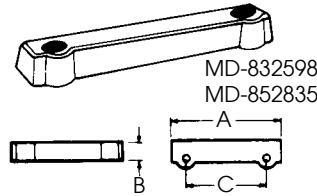
PLEASURE CRAFT ANODES FOR VOLVO OUTDRIVES

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)	— — NEW
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-22651246	3.40 (1.540)	N/A	N/A	SAIL DRIVE	4 (102)	1-3/4 (44)	— — NEW
MD-40005206 (MD-21174476)	12.00 (5.440)	AMD-40005206 (AMD-21174476)	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)

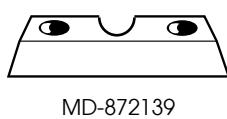


MD-838929
M8 x 1.25

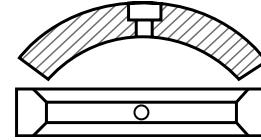
DIESEL
MD-823661



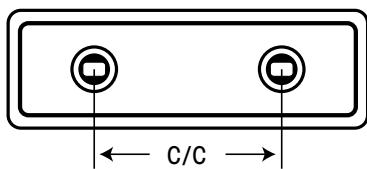
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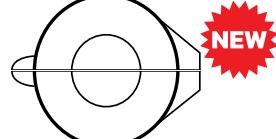
MDV-18
MD-851983
MD-875812
MD-875821



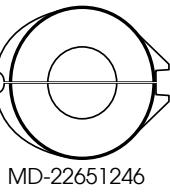
MD-3855411
1/4-20 UNC



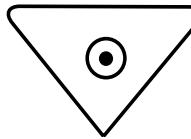
MD-21174476 - 5.45" C/C
MD-40005206 - 5.45" C/C
MD-40005875 - 5.90" C/C



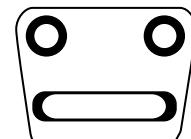
NEW



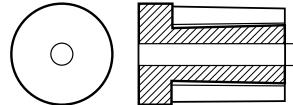
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MD-872793



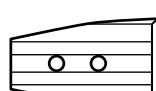
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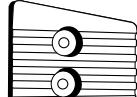
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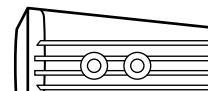
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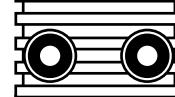
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MD-3841427

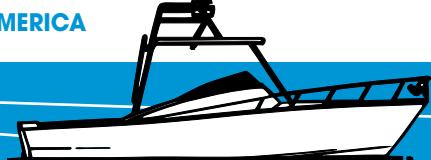


MD-3883728



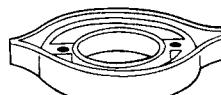
MD-873395

RELIANCE PRODUCTS - 100% MANUFACTURED IN NORTH AMERICA



VOLVO PENTA 280 ANODE KIT

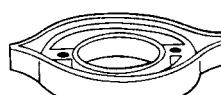
- 1 - MDV-18 (875815-3)
1 - MD-832598



MD-832598

VOLVO PENTA 280 DUO PROP ANODE KIT

- 1 - MD-875821
1 - MD-832598

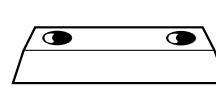
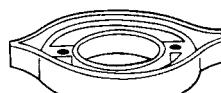


MD-875821

MD-832598

VOLVO PENTA 290 ANODE KIT

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

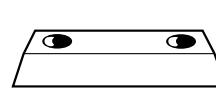
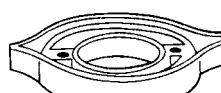


MDV-18

MD-852835

VOLVO PENTA 290 DUO PROP ANODE KIT

- 1 - MD-875821
1 - MD-852835

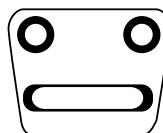
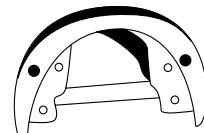


MD-875821

MD-852835

VOLVO PENTA SX ANODE KIT

- 1 - MD-3855411
1 - MD-3854130

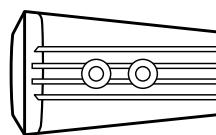
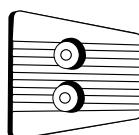


MD-3855411
1/4-20 UNC

MD-3854130

VOLVO SX-A/DPS

- 1 - MD-3841427
1 - MD-3883728

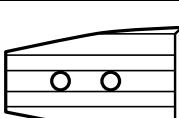


MD-3841427

MD-3883728

VOLVO DPH ENGINE

- 1 - MD-3588745
1 - MD-3863206

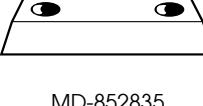
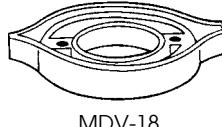


MD-3588745

MD-3863206

NO HARDWARE

- 1 - MDV-18
1 - MD-852835
1 - MD-872793



NEW

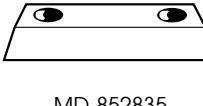
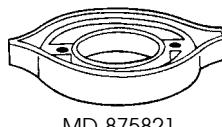
MDV-18

MD-852835

MD-872793

VOLVO 290 DP EU

- 1 - MD-875821
1 - MD-852835
1 - MD-872793



NEW

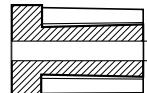
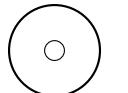
MD-875821

MD-852835

MD-872793

VOLVO VPIPS

- 1 - MD-3593881
1 - MD-40005875

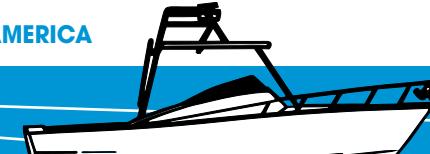


MD-3593881



MD-40005875

NEW



ZINC FOR SALT WATER

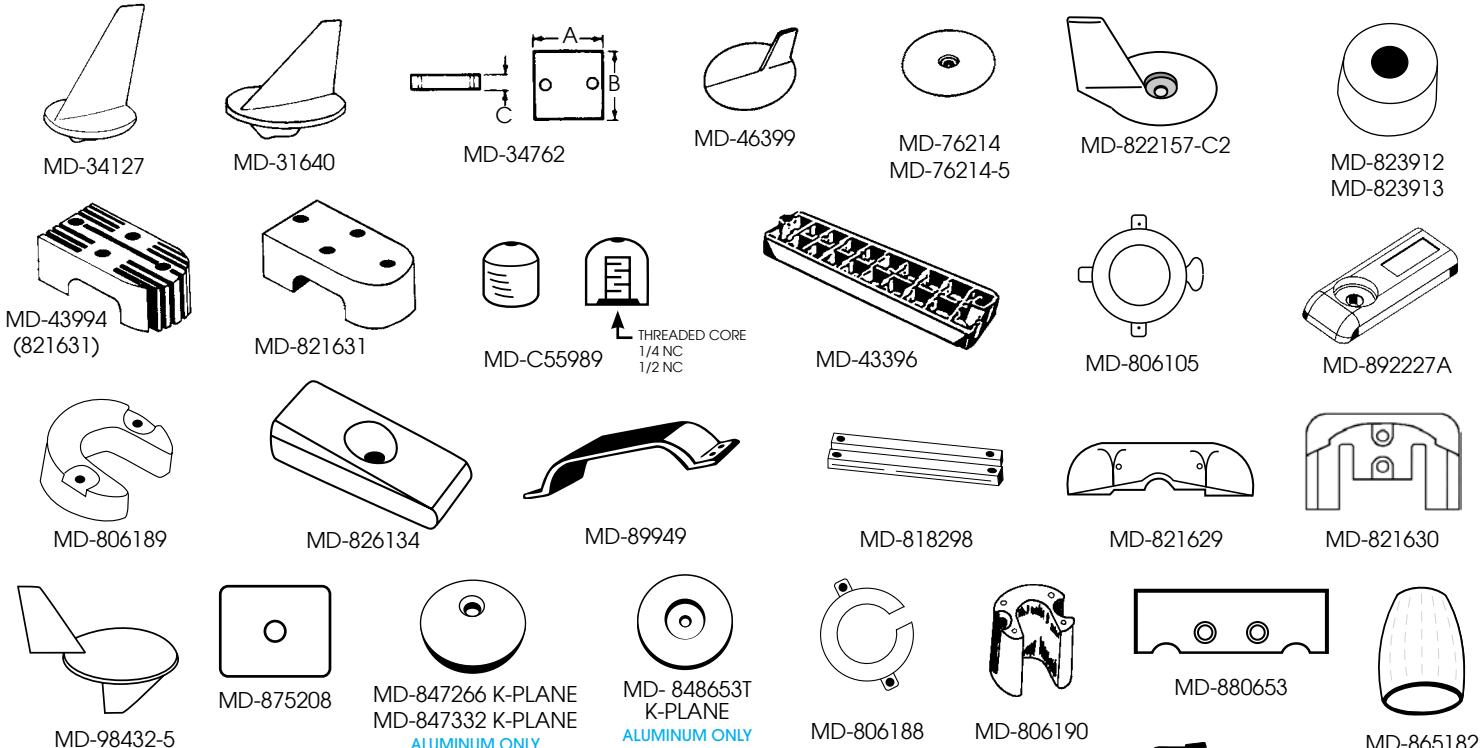
ALUMINUM FOR SALT AND BRACKISH WATER

Anodes For Mercury Outdrives

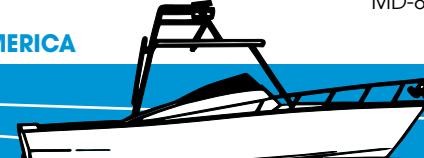
These Reliance Outdrive Anodes are direct replacement components for Mercury and Volvo engines and meet or exceed the specifications of anodes on original equipment.

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 (1/2)	0.23 (0.105)	AMD-55989 (1/2)	0.09 (0.041)	1/2-13 UNC
MD-55989 (1/4)	0.23 (0.105)	AMD-55989 (1/4)	0.09 (0.041)	1/4-20 UNC
MD-55989 (7/16)	0.23 (0.105)	AMD-55989 (7/16)	0.09 (0.041)	7/16-14 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	0.35 (0.129)	AMD-823912	0.14 (0.062)	
MD-823913	1.00 (0.450)	AMD-823913	0.45 (0.200)	
MD-892227	0.30 (0.136)	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)	

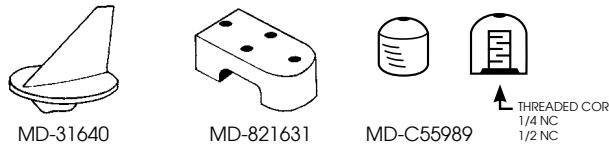


RELIANCE PRODUCTS - 100% MANUFACTURED IN NORTH AMERICA



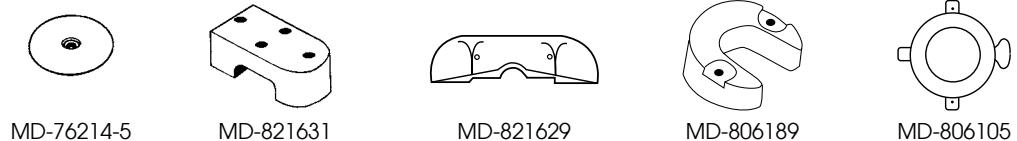
ALPHA 1 ANODE KIT

- 1 - MD-31640
- 1 - MD-821631
- 2 - MD-55989



ALPHA 1 GEN 11 ANODE KIT

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



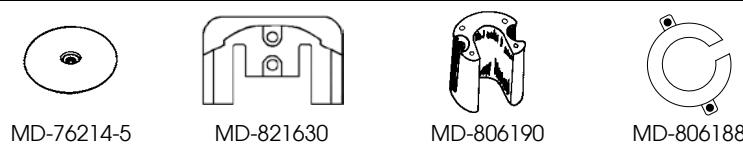
ALPHA 1 GEN 11 W/FIN ANODE KIT

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



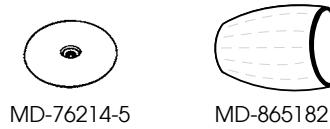
BRAVO 1 ANODE KIT

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



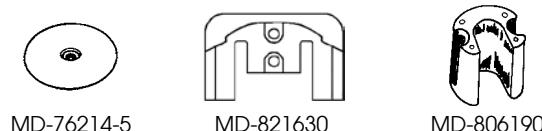
BRAVO 111 (2003) ADD ON

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



BRAVO 11 + 111 ANODE KIT

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



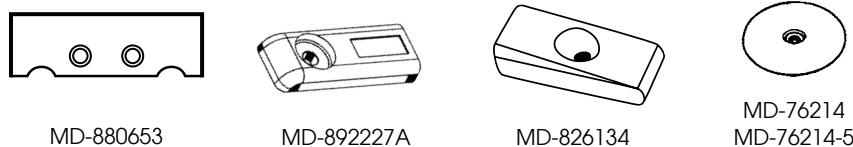
BRAVO 111 (2004+) ANODE KIT

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



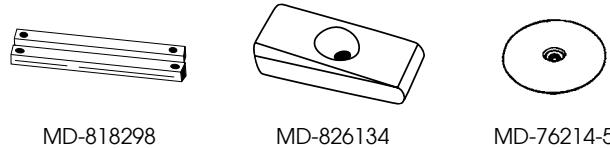
VERADO - 6

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



VERADO - 4

- 1 - MD-818298
- 2 - MD-826134
- 1 - MD-76214-5



VERADO - 4 WITH FIN

- 1 - MD-818298
- 1 - MD-31640
- 2 - MD-826134



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

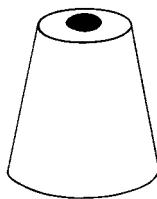
SCREWS WASHERS

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)

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ZINC FOR SALT WATER

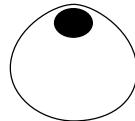
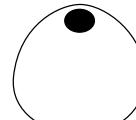
ALUMINUM FOR SALT AND BRACKISH WATER

Pleasure Craft Propeller Nuts

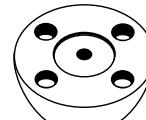
Propeller nut replacement comes with washers attached.

FX FLEXOFOLD PROPELLER ANODES

ZINC ANODES		ALUMINUM ANODES		FITS	NOMINAL DIMENSIONS	
TYPE NUMBER	NOM. WEIGHT lbs. (kg)	TYPE NUMBER	NOM. WEIGHT lbs. (kg)		BASE DIA. in (mm)	HEIGHT in (mm)
MD-FX (112)	1.00 (0.45)	AMD-FX (117)	0.45 (0.21)	ALL 3 BLADE, 2 BLADE PROPELLERS & 4 BLADE UP TO 23"	2-5/8 (67)	1.5 (38)
MD-FX-L	2.43 (1.10)	AMD-FX-L	0.90 (0.41)	ALL 4 BLADE PROPELLERS 25" & UP	3.43 (87)	1.89 (48) NEW

MD-FX (112) ZINC
AMD-FX (117) ALUM

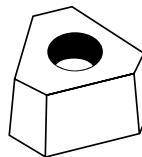
MD-FX-L TOP



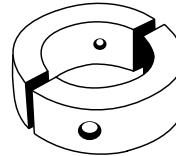
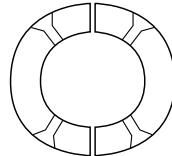
MD-FX-L BOTTOM

**GORI PROPELLER NUTS**

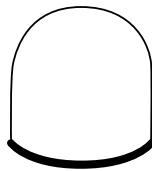
ZINC ANODES		ALUMINUM ANODES		NOMINAL DIMENSIONS		
TYPE NUMBER	NOM. WEIGHT lbs. (kg)	TYPE NUMBER	NOM. WEIGHT lbs. (kg)	HOLE DIAMETER in (mm)	WIDTH in (mm)	HEIGHT in (mm)
MD-GP - 14072100	0.08 (0.04)	AMD-GP - 14072100	0.04 (0.02)	0.30 (8)	1.0 (26)	0.63 (16)
MD-GP - 14073100	0.08 (0.04)	AMD-GP - 14073100	0.04 (0.02)	0.25 (6)	1.1 (28)	0.63 (16)
MD-GP - 14074100	0.19 (0.09)	AMD-GP - 14074100	0.10 (0.05)	0.30 (8)	1.3 (33)	0.80 (20)

**GORI PROPELLER RINGS**

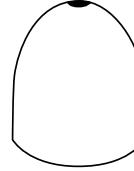
ZINC ANODES		ALUMINUM ANODES		NOMINAL DIMENSIONS		
TYPE NUMBER	NOM. WEIGHT lbs. (kg)	TYPE NUMBER	NOM. WEIGHT lbs. (kg)	OUTSIDE DIA. in (mm)	INSIDE DIA. in (mm)	HEIGHT in (mm)
MD-GP - 15520000	0.75 (0.33)	AMD-GP - 15520000	0.30 (0.14)	2.60 (65)	1.8 (45)	1.3 (34)
MD-GP - 15527500	0.80 (0.35)	AMD-GP - 15527500	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)

**VARIFOLD PROPELLER ANODES**

ZINC ANODES		ALUMINUM ANODES		NOMINAL DIMENSIONS		
TYPE NUMBER	NOM. WEIGHT lbs. (kg)	TYPE NUMBER	NOM. WEIGHT lbs. (kg)	DIAMETER in (mm)	THREADED MOUNTING HOLE	HEIGHT in (mm)
MD-VF3AN	0.80 (0.40)	AMD-VF3AN	0.31 (0.14)	1.75 (45)	M16X2	1.75 (45)
MD-VF4AN	2.60 (1.18)	AMD-VF4AN	1.04 (0.47)	2.63 (67)	M16	2.75 (70)



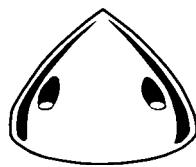
MD-VF3AN



MD-VF4AN

RELIANCE PRODUCTS - 100% MANUFACTURED IN NORTH AMERICA

reliance**Pleasure Craft
Anodes**

MAX PROP**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

63M

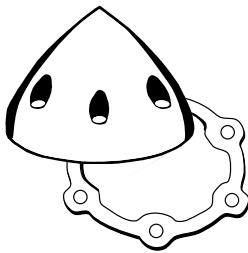
- Fits 2001 and older 63mm hubs non-circular in diameter
- Weight: 0.6 lbs
- For 3/4" to 1-1/8" and 22mm to 28mm diameter shafts
- Mounting holes 46mm centre-to-centre (1-13/16")
- Uses 63/70mm Large Screw Set
(5mm diameter screws, 20mm long, 4mm hex wrench)

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**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

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

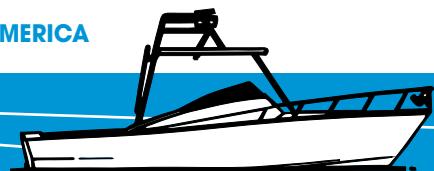
70M4

- "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)

83M4

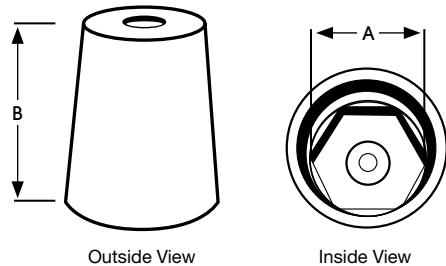
- "Universal" zinc anode for 83mm Max Prop propeller hubs
- Weight: 2.0 lbs
- For 1-1/2" to 1-3/4" (38mm to 40mm) diameter shafts
- Small mounting holes 55mm centre-to-centre (2-1/8")
- Large mounting holes 60mm centre-to-centre (2-3/8")
- For 2004 and newer propellers, use smaller mounting holes with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

RELIANCE PRODUCTS - 100% MANUFACTURED IN NORTH AMERICA



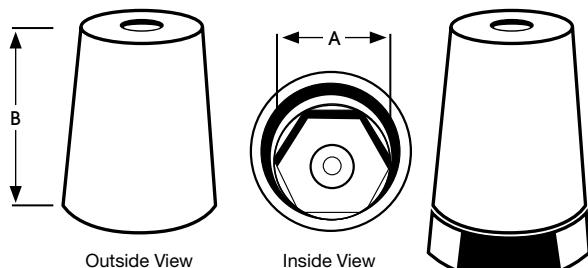
RADICE/AZIMUT PROPELLER ZINC ANODE (ANODE ONLY)

ZINC ANODES		NOMINAL DIMENSIONS		
TYPE NUMBER	NOM. WEIGHT lbs. (kg)	A DIAMETER in (mm)	DIMENSION B in (mm)	
		in (mm)	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)	



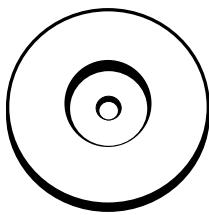
RADICE/AZIMUT PROPELLER ZINC ANODE (INCLUDES INSERT & HARDWARE)

ZINC ANODES		NOMINAL DIMENSIONS		THREAD
TYPE NUMBER	NOM. WEIGHT lbs. (kg)	A DIAMETER in (mm)	DIMENSION B in (mm)	SIZE (mm)
		in (mm)	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

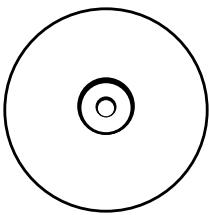


RADICE/AZIMUT ZINC ANODE

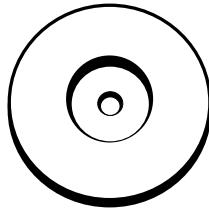
ZINC ANODES	NOM. WEIGHT lbs. (kg)	ALUMINUM ANODES		NOMINAL DIMENSIONS		
		TYPE NUMBER	NOM. WEIGHT lbs. (kg)	DIAMETER in (mm)	THICKNESS in (mm)	HOLE DIA in (mm)
125MM TRANSOM	5.90 (2.7)	125MM TRANSOM	2.36 (1.07)	5 (125)	1-1/2 (38)	1/2 (13)
135MM TRANSOM	10.20 (4.6)	135MM TRANSOM	3.78 (1.71)	5.5 (135)	2-0 (50)	5/8 (16) NEW
152MM TRANSOM	9.00 (4.08)	152MM TRANSOM	3.33 (1.51)	5-1/8 (152)	2-0 (50)	9/16 (14) NEW
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)



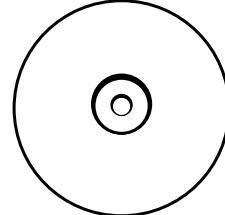
RADICE/AZIMUT
125MM TRANSOM



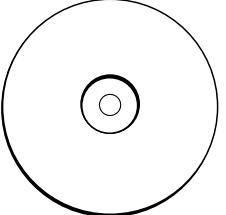
RADICE/AZIMUT
135MM TRANSOM



RADICE/AZIMUT
152MM TRANSOM



RADICE/AZIMUT 125MM
STREAMLINED HULL



RADICE/AZIMUT 140MM
STREAMLINED HULL

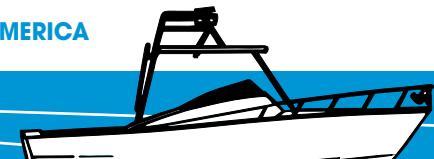
NEW

NEW

RELIANCE PRODUCTS - 100% MANUFACTURED IN NORTH AMERICA

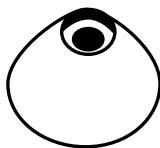
reliance

Pleasure Craft
Anodes

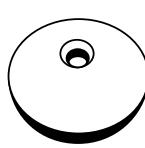
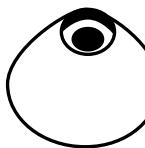


SIDE POWER BOW THRUSTERS

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-61180	0.10 (0.050)	AMD-SM-61180	0.04 (0.020)	1-0 (25)	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)	

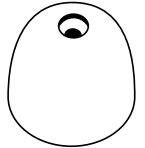


MD-SM-31180

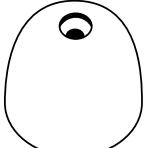
MD-SM-71190
(MD-SM-51180)

MD-SM-61180

NEW



MD-SM-201180



MD-SM-501180

KEY POWER BOW THRUSTER

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-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

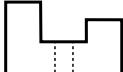
VETUS BOW THRUSTERS

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)		

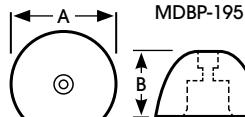
MDBP-129



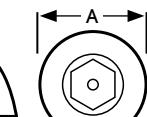
BOTTOM



SIDE



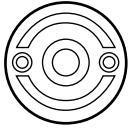
TOP



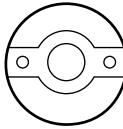
SIDE

INSIDE

MDBP-1185

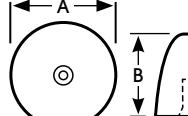


TOP

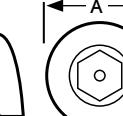


BOTTOM

MDBP-1210



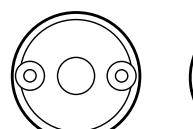
TOP



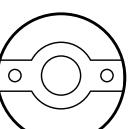
SIDE

INSIDE

MDBP-1126



TOP



BOTTOM

MDBP-1221

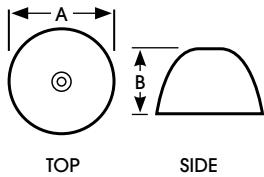
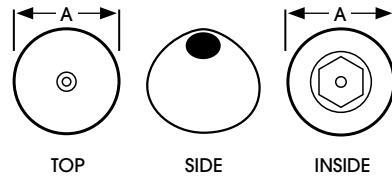
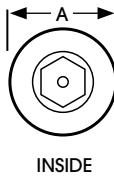


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QUICK BTQ / BTR THRUSTERS

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

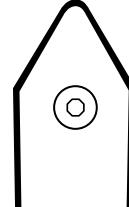
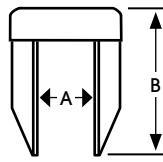
Spurs Line Cutter Anodes

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

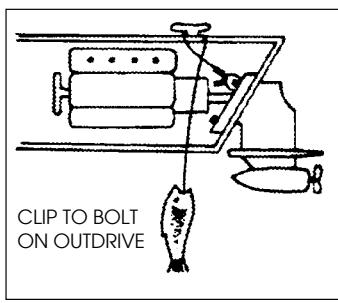


SIZE F-F1

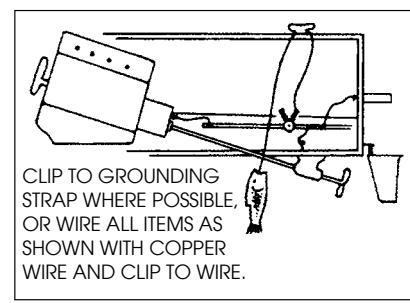
Grouper Anodes

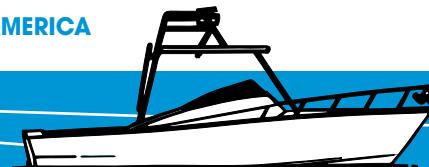
The Grouper comes complete with 15 foot cable and clip.
Available in zinc and aluminum.

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)



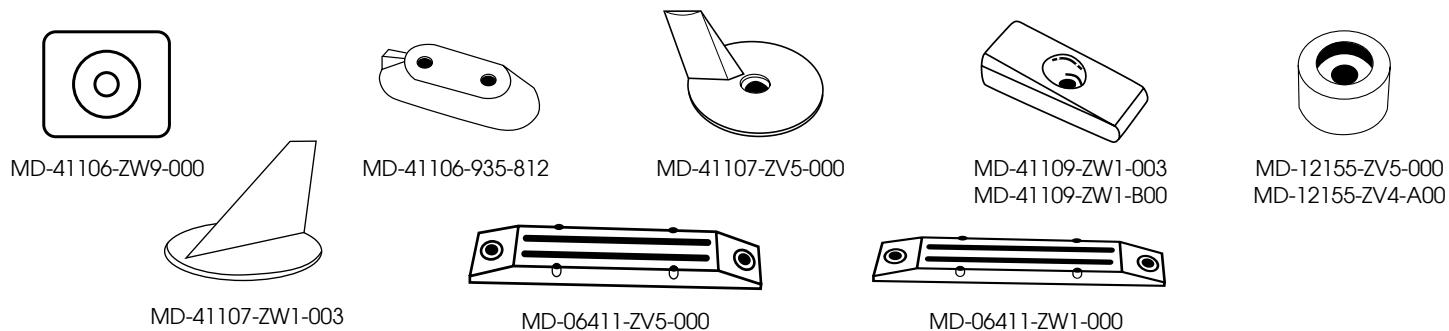
CLIP TO BOLT ON OUTDRIVE

CLIP TO GROUNDING STRAP WHERE POSSIBLE,
OR WIRE ALL ITEMS AS
SHOWN WITH COPPER
WIRE AND CLIP TO WIRE.

Pleasure Craft
Anodes

PLEASURE CRAFT ANODES FOR HONDA

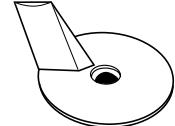
ZINC ANODES		ALUMINUM ANODES		CROSS REFERENCE / SAME AS
TYPE NUMBER	NOM. WEIGHT lbs. (kg)	TYPE NUMBER	NOM. WEIGHT lbs. (kg)	
MD-41106-935-812	0.20 0.091	AMD-41106-935-812	0.08 0.036	6E0-45251-11
MD-41106-ZW9-000	0.10 0.050	AMD-41106-ZW9-000	0.05 0.020	
MD-41107-ZV5-000	0.48 0.218	AMD-41107-ZV5-000	0.19 0.086	664-45371-01
MD-41109-ZW1-003	0.54 0.245	AMD-41109-ZW1-003	0.21 0.095	826134
MD-41109-ZW1-B00	0.49 0.223	AMD-41109-ZW1-B00	0.19 0.086	
MD-06411-ZV5-000	0.79 0.359	AMD-06411-ZV5-000	0.30 0.136	
MD-06411-ZW1-000	1.83 0.832	AMD-06411-ZW1-000	0.70 0.318	31640
MD-41107-ZW1-003-ZA	1.05 0.477	AMD-41107-ZW1-003-ZA	0.41 0.186	
MD-12155-ZV4-A00	0.06 0.027	AMD-12155-ZV4-A00	0.02 0.009	688-45251-01
MD-12155-ZV5-000	0.06 0.027	AMD-12155-ZV5-000	0.30 0.134	



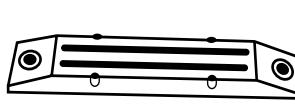
AVAILABLE IN ZINC & ALUMINUM

HBP4050 ANODE KIT

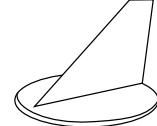
- 1 - MD-41107-ZV5-000
- 1 - MD-06411-ZV5-000
- 2 - MD-41109-ZW1-003



MD-41107-ZV5-000



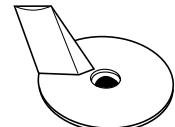
MD-06411-ZV5-000



MD-41107-ZW1-003

**HBF35225 ANODE KIT**

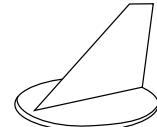
- 1 - MD-41107-ZV5-000
- 1 - MD-06411-ZV5-000
- 2 - MD-41109-ZW1-003
- 2 - MD-55321-87J00



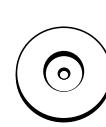
MD-41107-ZV5-000



MD-06411-ZV5-000



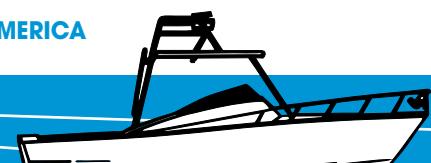
MD-41107-ZW1-003



MD-55321-87J00

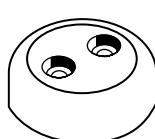


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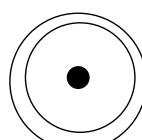
PLEASURE CRAFT ANODES FOR HAMILTON JET

ZINC ANODES			ALUMINUM ANODES		
TYPE NUMBER	NOM. WEIGHT lbs. (kg)		TYPE NUMBER	NOM. WEIGHT lbs. (kg)	
MD-HJ-102185	2.08	0.945	AMD-HJ-102185 / AMD-HJ-203123	0.81	0.368
MD-HJ-105447	0.45	0.205	AMD-HJ-105447 / AMD-HJ-203125	0.18	0.082
MD-HJ-104634	0.62	0.282	AMD-AHJ-104634	0.24	0.109
MD-HJ-111593	0.56	0.255	AMD-AHJ-111593 / AMD-HJ-203133	0.46	0.210
MD-HJ-112657	0.33	0.150	AMD-AHJ-112657 / AMD-HJ-203131	0.25	0.110
MD-HJ-103359	0.57	0.259	AMD-AHJ-103359 / AMD-HJ-203124	0.35	0.160
MD-HJ-111059	2.09	0.950	AMD-AHJ-111059 / AMD-HJ-203130	0.22	0.100
MD-HJ-111644	0.87	0.395	AMD-AHJ-111644 / AMD-HJ-203132	0.55	0.250
MD-HJ-108582	0.07	0.032	AMD-AHJ-108582	0.03	0.014
MD-HJ-107890	3.80	1.720	AMD-AHJ-107890 / AMD-HJ-203127	1.52	0.690
MD-HJ-103862-14	14.0	6.350	AMD-AHJ-103862-14	5.45	2.470
MD-HJ-212094	0.34	0.152	AMD-AHJ-212094	0.14	0.062

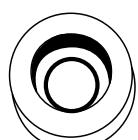


MD-HJ-103862-14

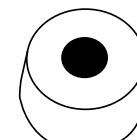
The DD6X6, DD6X6 Heavy, DD6X6 X-Heavy & 103862-15 are a popular low cost alternative to the HJ-103862



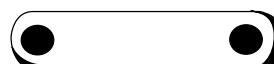
MD-HJ-102185



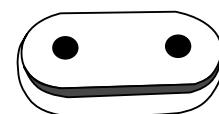
MD-HJ-105447



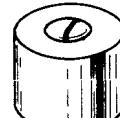
MD-HJ-112657



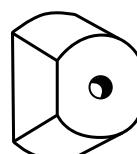
MD-HJ-104634, HJ103359



MD-HJ-111059



MD-HJ-108582



MD-HJ-107890

MD-HJ-111593 • M8 x 1.25
MD-HJ-111644 • M8 x 1.25

Anodes for MJP Ultrajet Marine Jet Drives

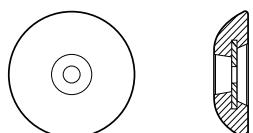
MJP ULTRAJET MARINE JET DRIVE ANODES



MD-MJP305-1 JET CONE ANODE (8700-026-00S)

	PART#	HEIGHT in (mm)	TOP DIA in (mm)	BASE DIA in (mm)	WEIGHT LBS (KGS)
ZINC	MD-MJP305-1	4.00 (101)	1.00 (25)	4.50 (114)	3.70 (1.68)
ALUM	AMD-MJP305-1	4.00 (101)	1.00 (25)	4.50 (114)	1.37 (0.62)

NEW



MD-MJP305-2 JET BODY ANODE (8700-0037-00H) same as MD-ZD56

	PART#	DIAMETER in (mm)	THICKNESS in (mm)	HOLE DIA in (mm)	WEIGHT LBS (KGS)
ZINC	MD-MJP305-2	4.00 (101)	1.00 (25)	0.50 (13)	2.00 (0.91)
ALUM	AMD-MJP305-2	4.00 (101)	1.00 (25)	0.50 (13)	0.80 (.364)

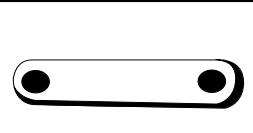
NEW



MD-MJP305-3 STEERING DEFLECTOR (8729-926-009) same as MD-HJ112657

	PART#	HEIGHT in (mm)	WIDTH in (mm)	HOLE DIAMETER in (mm)	WEIGHT LBS (KGS)
ZINC	MD-MJP305-3	1.00 (25)	1.50 (38)	0.375 (9.52)	0.30 (0.14)
ALUM	AMD-MJP305-3	1.00 (25)	1.50 (38)	0.375 (9.52)	0.11 (0.05)

NEW



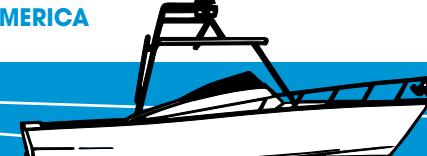
MD-MJP305-4 REVERSE DEFLECTOR (8978-924-00G) same as MD-HJ103359

	PART#	A-LENGTH in (mm)	B-WIDTH in (mm)	C-THICKNESS in (mm)	HOLE DISTANCE in (mm)	WEIGHT LBS (KGS)
ZINC	MD-MJP305-4	3 1/8 (80)	7/8 (22)	1.00 (25)	2 1/4 (57)	0.60 (0.27)
ALUM	AMD-MJP305-4	3 1/8 (80)	7/8 (22)	1.00 (25)	2 1/4 (57)	0.22 (0.10)

NEW

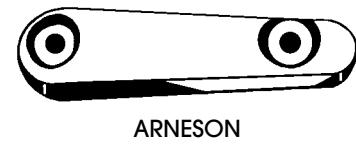
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Pleasure Craft
Anodes

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)



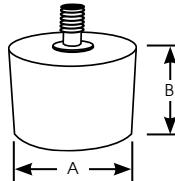
ARNESON

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

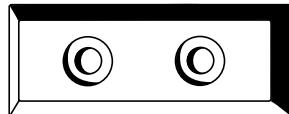


GALVION ZINC ANODES

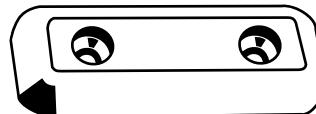
Type Number	Nom. Weight lbs. (kgs)	A-Diameter in. (mm)	B-Length in. (mm)	Int. Thread	Brass Plug Npt. in. (mm)
MD-ZDM-625	0.05 (0.02)	0.625 (17)	0.75 (19)	12-28	0.50 (13)
MD-ZDM-825	0.09 (0.04)	0.82 (21)	0.75 (19)	12-28	0.75 (19)
MD-ZDM-1050	0.16 (0.48)	0.82 (21)	0.75 (19)	12-28	1.0 (25)

SEA STRAINER

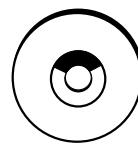
ZINC ANODES		ALUMINUM ANODES		
Type Number	Nom. Weight lbs. (kg)	Type Number	Nom. Weight lbs. (kg)	
SZ1	0.55 (0.250)	ASZ1	0.24 (0.109)	1 1/2 (38) x 3 7/8 (98) x 1/2 (13)
DOKA (656934)	0.33 (0.150)	ADOKA (656934)	0.14 (0.064)	1 1/4 (32) x 3 3/8 (86) x 7/16 (11)



SZ1



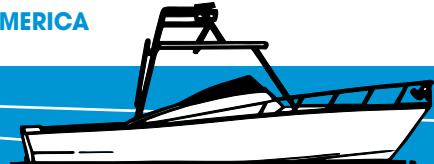
DOKA (656934)



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.

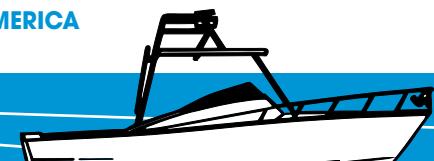
Need Requirements

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

Disclaimer

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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.

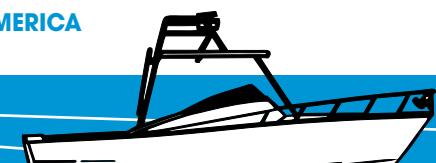
MISC. CONSIDERATIONS

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.

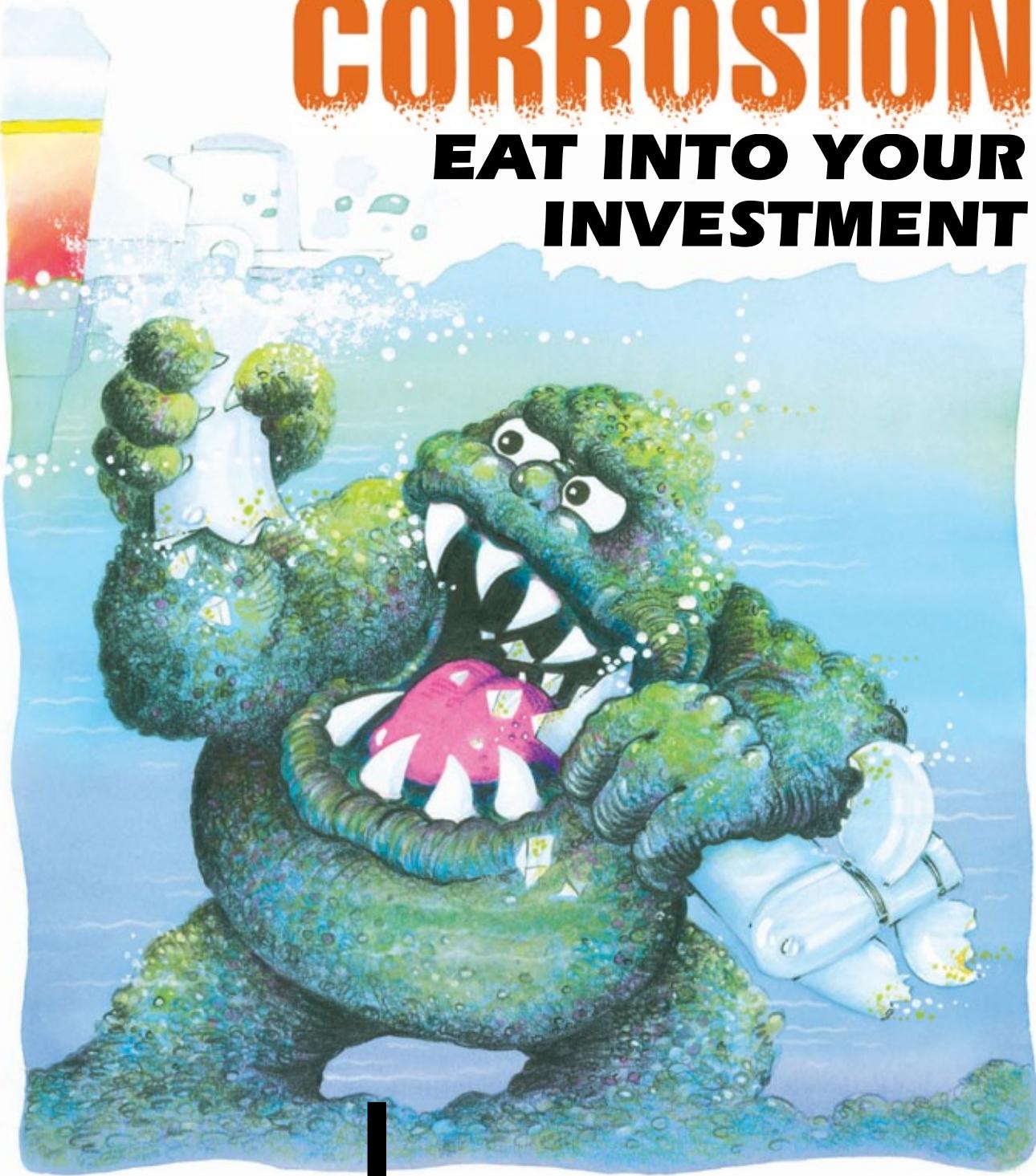
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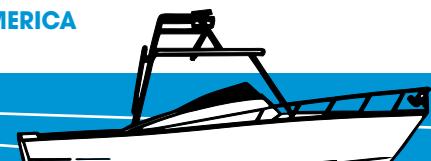


**DON'T LET
CORROSION
EAT INTO YOUR
INVESTMENT**



DEMAND *reliance* MIL SPEC ANODES

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NOTES

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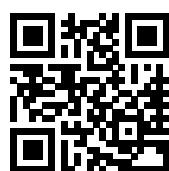
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