

reliance

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September 2023

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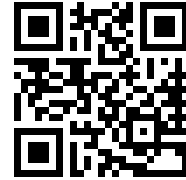
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reliance ANODES

FREQUENTLY ASKED QUESTIONS

ARE ALL ZINC ANODES THE SAME?

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

WHICH ZINC IS BEST?

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

WHY SHOULD I USE MIL-SPEC ZINC?

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

WHAT IS PASSIVATION?

Passivation means the anode stopped working or has reduced effectiveness.

WHAT CAUSES PASSIVATION?

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

HOW CAN THE ANODES AVOID BECOMING PASSIVATED?

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

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

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

MIL-SPEC MIL-A-18001

Cd025% - .07%
Cu005% Max
Fe005% Max
Pb006% Max
Al10% - .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 it's 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	ALUMINUM ALLOY MIL-A-24779
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

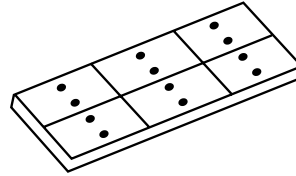
FOR SALT AND BRACKISH WATER ONLY

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COMMERCIAL PLATES

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

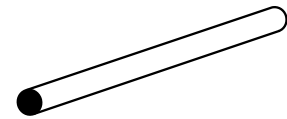


*Plates available in Aluminum Alloy
*Bonding Wire available for 1/2" Plates

Commercial Rods

COMMERCIAL RODS

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



*Rods also available in 12" lengths

Sounding Lead Weights

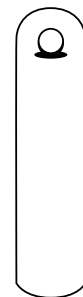
Used in the marine industry to provide weight distribution or as counterweight and measuring the depth of water.

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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COMMERCIAL PROPELLER NUT ANODES

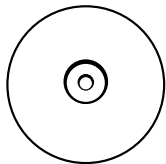
ZINC ANODES			ALUMINUM ANODES			NOMINAL DIMENSIONS				
TYPE NUMBER	NOM. WEIGHT		TYPE NUMBER	NOM. WEIGHT		A-DIA (ID)		B-DIA (OD)		C-DEPTH
	lbs.	(kg)		lbs.	(kg)	in	(mm)	in	(mm)	
A	2.4	(.90)	-	-	-	2.0	(50)	2.75	(69)	2.875 (73)
B	2.6	(1.15)	-	-	-	2.25	(57)	3.0	(76)	3.0 (76)
1	4.0	(1.80)	-	-	-	2.5	(63)	3.375	(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)



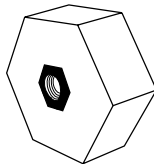
BOLT ON

CRAB TRAP ANODES

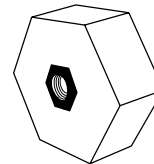
ZINC ANODES			ALUMINUM ANODES			DIA.		WIDTH		BOLT DIA.	
TYPE NUMBER	NOM. WEIGHT		TYPE NUMBER	NOM. WEIGHT		in	(mm)	in	(mm)	in	(mm)
	lbs.	(kg)		lbs.	(kg)						
MDCT-3	3.00	(1.35)	AMDCT-3	1.30	(0.600)	3-1/4	(83)	1-1/4	(32)	1/2	(13)
MDCT-3 HEX	3.00	(1.35)	AMDCT-3 HEX	1.30	(0.600)	3	(76)	1-3/8	(35)	1/2	(13)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



MDCT-3



MDCT-3 HEX

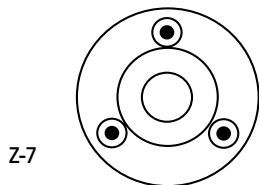


MDCT-5 HEX

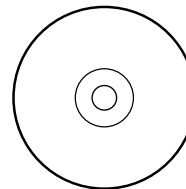
BOLT ON

COMMERCIAL BOLT-ON (PIE ANODES)

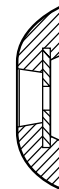
ZINC ANODES			ALUMINUM ANODES			DIA.		WIDTH		BOLT DIA.	
TYPE NUMBER	NOM. WEIGHT		TYPE NUMBER	NOM. WEIGHT		in	(mm)	in	(mm)	in	(mm)
	lbs.	(kg)		lbs.	(kg)						
Z-7	12.5	(6.000)	AZ-7	5.5	(2.500)	8 1/2"	(216)			7/16"	(17)
ZD-56	2.50	(1.136)	AZD-56	0.80	(0.364)	4"	(101)			7/16"	(17)
ZD-58	4.40	(2.000)	AZD-58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



Z-7



ZD-56 / ZD-58



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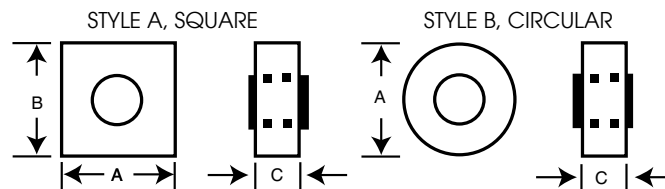


These Anodes are used on vessels of all sizes for protection of Heat Exchangers and other areas where space is a limiting factor. Style A Anodes are square, while Style B Anodes are cast in a circular configuration. Both these types have steel inserts cast integrally. Inserts project approximately one-eighth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

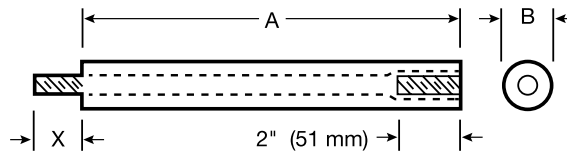
BOLT ON

ZINC ANODES			ALUMINUM ANODES			NOMINAL DIMENSIONS - STYLE A					
TYPE NUMBER	NOM. WEIGHT		TYPE NUMBER	NOM. WEIGHT		A-LENGTH		B-WIDTH		C-DEPTH	
	lbs.	(kg)		lbs.	(kg)	in	(mm)	in	(mm)	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		A-LENGTH		B-WIDTH		X		
	lbs.	(kg)	in	(mm)	in	(mm)	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

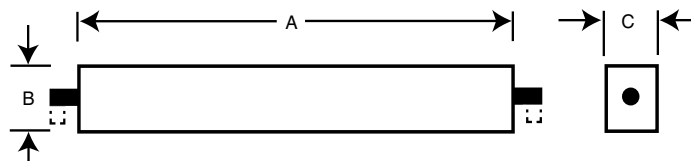
These Ballast Tank Anodes are available in any length up to the maximum shown in the table. Supplied with straight or bent rod extensions. Other rod sizes and configurations may be specified by purchaser.

COMMERCIAL BALLAST TANK ANODES

WELD ON

ZINC ANODES			ALUMINUM ANODES			NOMINAL DIMENSIONS					
TYPE NUMBER	NOM. WEIGHT		TYPE NUMBER	NOM. WEIGHT		A-LENGTH		B-WIDTH		C-DEPTH	
	lbs.	(kg)		lbs.	(kg)	in	(mm)	in	(mm)	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



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		WEIGHT		
		PART#	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
	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)	

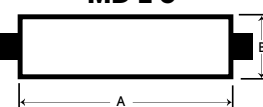
BOLT HOLES CAN BE ADDED ON STRAPS AS REQUIRED

RELIANCE PRODUCTS - 100% MANUFACTURED IN NORTH AMERICA



WELD ON ANODES


MD-Z-6



	PART#	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
		in (mm)	in (mm)	in (mm)	in (mm)	LBS (KGS)
ZINC	MD-Z-6	5.0 (127)	2.5 (63)	1.0 (25)		3.0 (1.35)
ALUM	AMD-Z-6	5.0 (127)	2.5 (63)	1.0 (25)		1.3 (.60)

BOLT HOLES CAN BE ADDED ON STRAPS AS REQUIRED

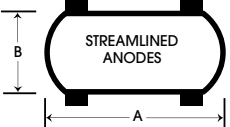
MD-Z-19



	PART#	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
		in (mm)	in (mm)	in (mm)	in (mm)	LBS (KGS)
ZINC	MD-Z-19	25.0 (635)	3.125 (79)	1.25 (31)		23.0 (10.40)
ALUM	AMD-Z-19	25.0 (635)	3.125 (79)	1.25 (31)		10.0 (4.55)

BOLT HOLES CAN BE ADDED ON STRAPS AS REQUIRED

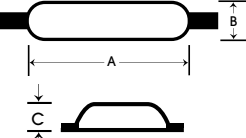
MD-Z-22



STREAMLINED ANODES

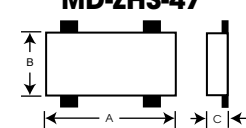
	PART#	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
		in (mm)	in (mm)	in (mm)	in (mm)	LBS (KGS)
ZINC	MD-Z-22	14.0 (356)	6.50 (165)	1-1/2 (38)		23.0 (10.45)
ALUM	AMD-Z-22	14.0 (356)	6.50 (165)	1-1/2 (38)		10.0 (4.550)

MD-Z-26 / MD-ZHS-26



	PART#	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
		in (mm)	in (mm)	in (mm)	in (mm)	LBS (KGS)
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)

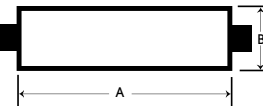
MD-ZHS-47



	PART#	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
		in (mm)	in (mm)	in (mm)	in (mm)	LBS (KGS)
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

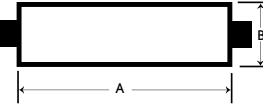
MD-Z-220



	PART#	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
		in (mm)	in (mm)	in (mm)	in (mm)	LBS (KGS)
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

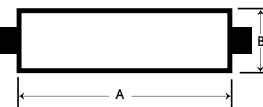
MD-ZC-5



	PART#	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
		in (mm)	in (mm)	in (mm)	in (mm)	LBS (KGS)
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

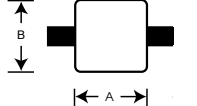
MD-ZC-7



	PART#	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
		in (mm)	in (mm)	in (mm)	in (mm)	LBS (KGS)
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

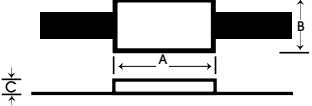
MD-661



	PART#	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
		in (mm)	in (mm)	in (mm)	in (mm)	LBS (KGS)
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

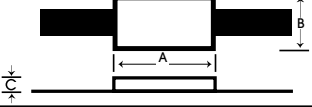
MD-2431



	PART#	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
		in (mm)	in (mm)	in (mm)	in (mm)	LBS (KGS)
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
		in (mm)	in (mm)	in (mm)	in (mm)	LBS (KGS)
ZINC	MD-2631	6.00 (155)	3.0 (76)	1.00 (25)		4.50 (2.00)
ALUM	AMD-2631	6.0 (155)	3.0 (76)	1.00 (25)		1.90 (0.90)

BOLT HOLES CAN BE ADDED ON STRAPS AS REQUIRED

RELIANCE PRODUCTS - 100% MANUFACTURED IN NORTH AMERICA



Commercial Anodes



WELD ON ANODES

		A-LENGTH		B-WIDTH		C-DEPTH		D-C/C		WEIGHT	
	PART#	in	(mm)	in	(mm)	in	(mm)	in	(mm)	LBS	(KGS)
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

		A-LENGTH		B-WIDTH		C-DEPTH		D-C/C		WEIGHT	
	PART#	in	(mm)	in	(mm)	in	(mm)	in	(mm)	LBS	(KGS)
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

WELD ON ANODES

COMMERCIAL TEARDROP ANODES

		A-LENGTH		B-WIDTH		C-DEPTH		D-C/C		WEIGHT	
	PART#	in	(mm)	in	(mm)	in	(mm)	in	(mm)	LBS	(KGS)
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)

		A-LENGTH		B-WIDTH		C-DEPTH		D-C/C		WEIGHT	
	PART#	in	(mm)	in	(mm)	in	(mm)	in	(mm)	LBS	(KGS)
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)

BOLT HOLES CAN BE ADDED ON STRAPS AS REQUIRED

		A-LENGTH		B-WIDTH		C-DEPTH		D-C/C		WEIGHT	
	PART#	in	(mm)	in	(mm)	in	(mm)	in	(mm)	LBS	(KGS)
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

		MOUNTING		A - LGTH		B - WIDTH		C - DEPTH		D - C/C		WEIGHT	
	PART#	in	(mm)	in	(mm)	in	(mm)	in	(mm)	in	(mm)	LBS	(KGS)
ZINC	MD-Z-12	1/4	(6)	4.0	(101)	1.25	(31)	0.75	(19)	2.00	(51)	0.75	(0.35)
ALUM	N/A	-	-	-	-	-	-	-	-	-	-	-	-

		MOUNTING		A - LGTH		B - WIDTH		C - DEPTH		D - C/C		WEIGHT	
	PART#	in	(mm)	in	(mm)	in	(mm)	in	(mm)	in	(mm)	LBS	(KGS)
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	
	PART#	in	(mm)	in	(mm)	in	(mm)	in	(mm)	in	(mm)	LBS	(KGS)
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	
	PART#	in	(mm)	in	(mm)	in	(mm)	in	(mm)	in	(mm)	LBS	(KGS)
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)

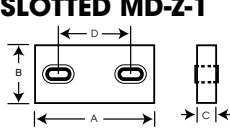
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COMMERCIAL HULL ANODES

BOLT ON ANODES

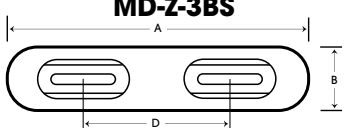
SLOTTED MD-Z-1



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

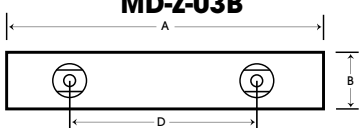
MD-Z-3BS



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

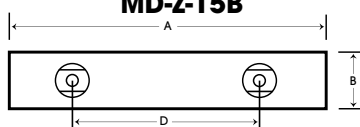
MD-Z-03B



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

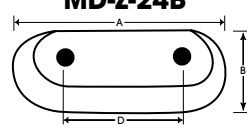
MD-Z-15B



	PART#	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
		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 GALVINIZED STEEL INSERT

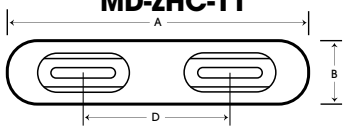
MD-Z-24B



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

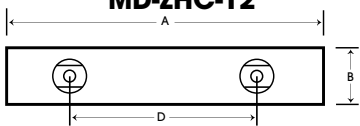
MD-ZHC-11



	PART#	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
		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 GALVINIZED INSERT - 5/8" SLOT

MD-ZHC-12



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

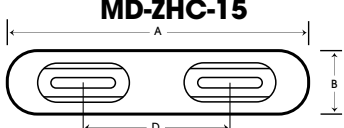
RELIANCE PRODUCTS - 100% MANUFACTURED IN NORTH AMERICA



COMMERCIAL HULL ANODES

BOLT ON 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)

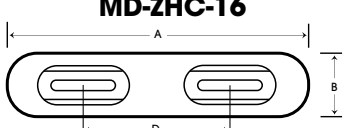
SLOTTED GALVINIZED INSERT - 5/8" SLOT

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)

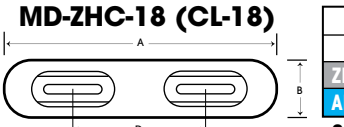
MD-ZHC-16



		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 GALVINIZED INSERT - 5/8" - 1"

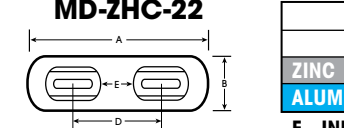
MD-ZHC-18 (CL-18)



		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)	2.00	(51)	9	(229)	18.0	(8.18)
ALUM	AMD-ZHC-18(CL-18)	16.0	(400)	3.5	(89)	2.00	(51)	9	(229)	7.8	(3.60)

SLOTTED GALVINIZED INSERT - 5/8" SLOT

MD-ZHC-22

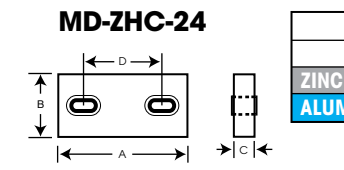


		A-LENGTH		B-WIDTH		C-DEPTH		D-C/C		E-INNER DIA		WEIGHT	
	PART#	in	(mm)	in	(mm)	in	(mm)	in	(mm)	in	(mm)	LBS	(KGS)
ZINC	MD-ZHC-22	17.0	(425)	4.00	(101)	2.00	(50)	8.0	(203)	3.18	(80)	21.0	(9.53)
ALUM	AMD-ZHC-22	17.0	(425)	4.00	(101)	2.00	(50)	8.0	(203)	3.18	(80)	7.78	(3.53)

E - INNER DIA 3.18 INCHES (80 MM)
SLOTTED WITH ALUMINUM INSERT

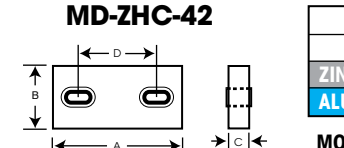
MADE FOR "VIKING" BOATS & MORE

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-24	12.0	(304)	6.0	(152)	1.5	(38)	6.5	(165)	8.52	(3.86)

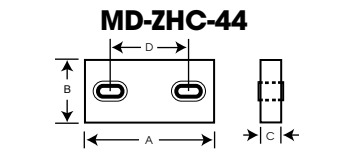
MD-ZHC-42



		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)

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

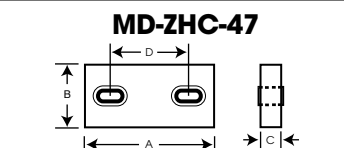
MD-ZHC-44



		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	(64)	6.0	(152)	44.0	(19.96)
ALUM	AMD-ZHC-44	12.0	(304)	6.0	(152)	2.5	(64)	6.0	(152)	16.3	(7.39)

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)

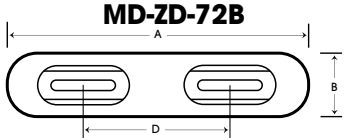
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BOLT ON ANODES

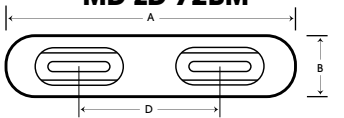
MD-ZD-72B



		A-LENGTH		B-WIDTH		C-DEPTH		D-C/C		WEIGHT	
PART#		in	(mm)	in	(mm)	in	(mm)	in	(mm)	LBS	(KGS)
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



		A-LENGTH		B-WIDTH		C-DEPTH		D-C/C		WEIGHT	
PART#		in	(mm)	in	(mm)	in	(mm)	in	(mm)	LBS	(KGS)
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

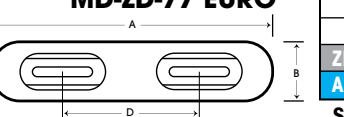
MD-ZD-76 MINI EURO



		A-LENGTH		B-WIDTH		C-DEPTH		D-C/C		WEIGHT	
PART#		in	(mm)	in	(mm)	in	(mm)	in	(mm)	LBS	(KGS)
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



		A-LENGTH		B-WIDTH		C-DEPTH		D-C/C		WEIGHT	
PART#		in	(mm)	in	(mm)	in	(mm)	in	(mm)	LBS	(KGS)
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)

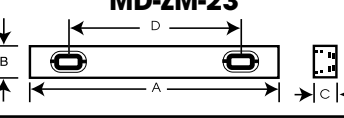
SLOTTED WITH ALUMINUM INSERTS

MD-ZM-17



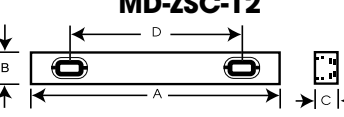
		A-LENGTH		B-WIDTH		C-DEPTH		D-C/C		WEIGHT	
PART#		in	(mm)	in	(mm)	in	(mm)	in	(mm)	LBS	(KGS)
ZINC	MD-ZM-17	24	(609)	3	(76)	1.125	(29)	12	(304)	18.0	(8.00)
ALUM	AMD-ZM-17	24	(609)	3	(76)	1.125	(29)	12	(304)	7.5	(3.4)

MD-ZM-23



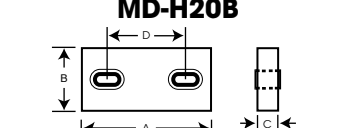
		A-LENGTH		B-WIDTH		C-DEPTH		D-C/C		WEIGHT	
PART#		in	(mm)	in	(mm)	in	(mm)	in	(mm)	LBS	(KGS)
ZINC	MD-ZM-23	24	(609)	3	(76)	1.50	(38)	12	(304)	28.0	(12.7)
ALUM	AMD-ZM-23	24	(609)	3	(76)	1.50	(38)	12	(304)	12.0	(5.44)

MD-ZSC-12



		A-LENGTH		B-WIDTH		C-DEPTH		D-C/C		WEIGHT	
PART#		in	(mm)	in	(mm)	in	(mm)	in	(mm)	LBS	(KGS)
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



		A-LENGTH		B-WIDTH		C-DEPTH		D-C/C		WEIGHT	
PART#		in	(mm)	in	(mm)	in	(mm)	in	(mm)	LBS	(KGS)
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)

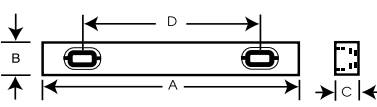
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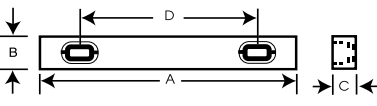
MD-P5B2



		A-LENGTH		B-WIDTH		C-DEPTH		D-C/C		WEIGHT	
PART#		in	(mm)	in	(mm)	in	(mm)	in	(mm)	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

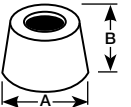
MD-P7B2, MD-ZHC-50



		A-LENGTH		B-WIDTH		C-DEPTH		D-C/C		WEIGHT	
PART#		in	(mm)	in	(mm)	in	(mm)	in	(mm)	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)

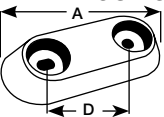
SLOTS IN ALUMINUM AND STEEL INSERTS, PLEASE SPECIFY WHEN ORDERING

MD-VETUS 8



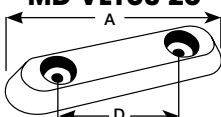
		A-LENGTH		B-WIDTH		C-DEPTH		D-C/C		WEIGHT	
PART#		in	(mm)	in	(mm)	in	(mm)	in	(mm)	LBS	(KGS)
ZINC	MD-VETUS 8	1-3/4	(45)	1-3/4	(45)	--	--	--	--	2.20	(1.00)
ALUM	AMD-VETUS 8	1-3/4	(45)	1-3/4	(45)	--	--	--	--	1.00	(0.450)

MD-VETUS 15




		A-LENGTH		B-WIDTH		C-DEPTH		D-C/C		WEIGHT	
PART#		in	(mm)	in	(mm)	in	(mm)	in	(mm)	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



		A-LENGTH		B-WIDTH		C-DEPTH		D-C/C		WEIGHT	
PART#		in	(mm)	in	(mm)	in	(mm)	in	(mm)	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



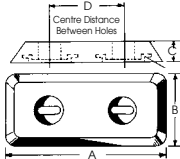
		A-LENGTH		B-WIDTH		C-DEPTH		D-C/C		WEIGHT	
PART#		in	(mm)	in	(mm)	in	(mm)	in	(mm)	LBS	(KGS)
ZINC	MD-VETUS 35	13-3/4	(350)	2-7/8	(75)	1-1/4	(35)	7-7/8	(200)	10.0	(4.5)
ALUM	AMD-VETUS 35	13-3/4	(350)	2-7/8	(75)	1-1/4	(35)	7-7/8	(200)	3.85	(1.75)

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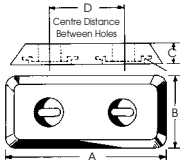
PLEASURE CRAFT HULL ANODES

BOLT ON ANODES



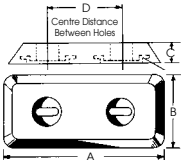
MD-ZHC-2

		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)



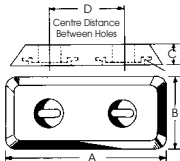
MD-ZHC-3H-HEAVY

		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)



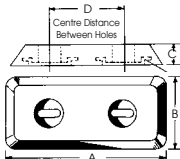
MD-DIVERS MINI 4 X 6 HEAVY (MD-ZHC-4H)

		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 (MD-ZHC-4H)	6-0	(152)	4-0	(102)	9/16	(14)	2-3/4	(69)	2.80	(1.273)
ALUM	AMD-DIVERS MINI 4X6 HEAVY (MD-ZHC-4H)	6-0	(152)	4-0	(102)	9/16	(14)	2-3/4	(69)	1.19	(0.541)



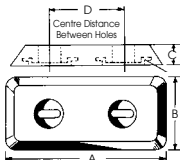
MD-ZHC-5

		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)



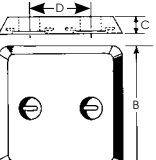
MD-ZHC-5-HEAVY

		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)



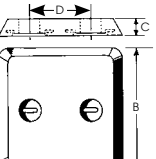
MD-ZHC-6

		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

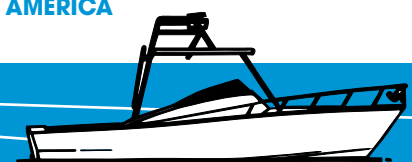
		A-LENGTH		B-WIDTH		C-DEPTH		D-C/C		WEIGHT	
PART#		in	(mm)	in	(mm)	in	(mm)	in	(mm)	LBS	(KGS)
ZINC	MD-6 X 6 DIVERS	6-0	(152)	6-0	(152)	1/2	(13)	2-7/8	(73)	4.60	(2.150)
ALUM	AMD-6 X 6 DIVERS	6-0	(152)	6-0	(152)	1/2	(13)	2-7/8	(73)	1.85	(0.840)



MD-DIVERS 6 X 6 HEAVY

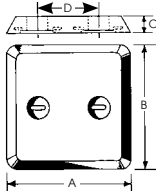
		A-LENGTH		B-WIDTH		C-DEPTH		D-C/C		WEIGHT	
PART#		in	(mm)	in	(mm)	in	(mm)	in	(mm)	LBS	(KGS)
ZINC	MD-DIVERS 6X6 HEAVY	6-0	(152)	6-0	(152)	5/8	(16)	2-7/8	(73)	6.00	(2.720)
ALUM	AMD-DIVERS 6X6 HEAVY	6-0	(152)	6-0	(152)	5/8	(16)	2-7/8	(73)	1.90	(0.860)

RELIANCE PRODUCTS - 100% MANUFACTURED IN NORTH AMERICA



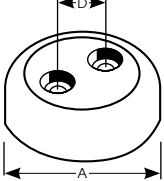
BOLT ON ANODES

PLEASURE CRAFT HULL ANODES



MD-6 X 6 DIVERS X-HEAVY

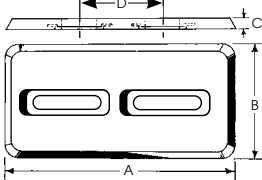
	PART#	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
		in (mm)	in (mm)	in (mm)	in (mm)	LBS (KGS)
ZINC	MD-6 X 6 DIVERS X-HEAVY	6-0 (152)	6-0 (152)	1-0 (25)	2-7/8 (73)	8.00 (3.63)
ALUM	AMD-DD-6 X 6 DIVERS X-HEAVY	6-0 (152)	6-0 (152)	1-0 (25)	2-7/8 (73)	2.96 (1.34)



MD-103862-14

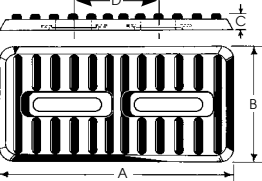
	PART#	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
		in (mm)	in (mm)	in (mm)	in (mm)	LBS (KGS)
ZINC	MD-103862-14	7-0 (178)	—	1-1/2 (38)	2-3/4 (69)	14.00 (6.35)
ALUM	AMD-103862-14	7-0 (178)	—	1-1/2 (38)	2-3/4 (69)	5.45 (2.47)

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



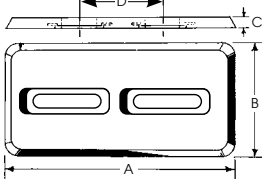
MD-DD 6X12 DIVERS DELITE

	PART#	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
		in (mm)	in (mm)	in (mm)	in (mm)	LBS (KGS)
ZINC	MD-DD-6X12 DIVERS DELITE	12.0 (305)	6.0 (152)	1/2 (13)	5-1/2 (140)	7.50 (3.409)
ALUM	AMD-DD-6X12 DIVERS DELITE	12.0 (305)	6.0 (152)	1/2 (13)	5-1/2 (140)	2.95 (1.341)



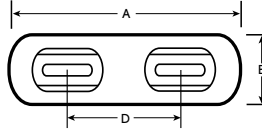
MD-DDX-6 X 12 DIVERS DLX

	PART#	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
		in (mm)	in (mm)	in (mm)	in (mm)	LBS (KGS)
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

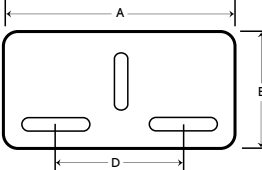
	PART#	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
		in (mm)	in (mm)	in (mm)	in (mm)	LBS (KGS)
ZINC	MD-DD 6X12 DIVERS HEAVY	12-0 (305)	6-0 (152)	3/4 (19)	5-1/2 (140)	10.5-11.5 (5.00)
ALUM	AMD-DD 6X12 DIVERS HEAVY	12-0 (305)	6-0 (152)	3/4 (19)	5-1/2 (140)	5.00 (2.27)



DIVERS SUPER HEAVY

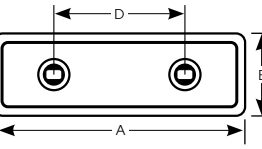
	PART#	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
		in (mm)	in (mm)	in (mm)	in (mm)	LBS (KGS)
ZINC	MD-DIVERS SUPER HEAVY	14-0 (356)	6-1/2 (165)	1.25 (32)	5-1/2 (140)	20.0 (9.07)
ALUM	AMD-DIVERS SUPER HEAVY	14-0 (356)	6-1/2 (165)	1.25 (32)	5-1/2 (140)	8.33 (3.78)

SLOTTED WITH ALUMINUM INSERT

MD-Z-10 BAYLINER

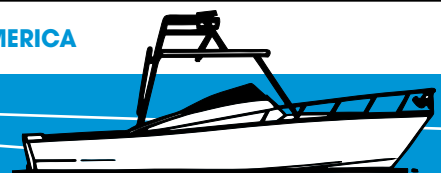
	PART#	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
		in (mm)	in (mm)	in (mm)	in (mm)	LBS (KGS)
ZINC	MD-Z-10 BAYLINER	12-0 (305)	6-0 (152)	5/8 (16)	4-1/2 (115)	8.90 (4.045)
ALUM	AMD-Z-10 BAYLINER	12-0 (305)	6-0 (152)	5/8 (16)	4-1/2 (115)	3.39 (1.541)



MD-40005206 (MD-21174476)

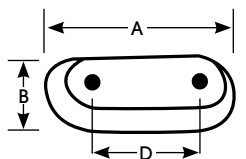
	PART#	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
		in (mm)	in (mm)	in (mm)	in (mm)	LBS (KGS)
ZINC	MD-40005206 (MD-21174476)	16-1/2 (413)	3-7/8 (66)	1-1/2 (38)	5-1/2 (140)	13.5 (6.14)
ALUM	AMD-40005206 (MD-21174476)	16-1/2 (413)	3-7/8 (66)	1-1/2 (38)	5-1/2 (140)	5.75 (2.61)

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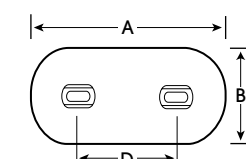
BOLT ON ANODES

PLEASURE CRAFT HULL ANODES



MD-ZC-406 / MD-B-12

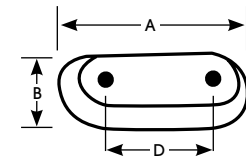
	PART#	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
		in (mm)	in (mm)	in (mm)	in (mm)	LBS (KGS)
ZINC	MD-ZC-406 / Z-MD-B-12	8-5/8 (219)	4-1/4 (108)	1 (25)	5 (127)	8.35 (3.79)
ALUM	AMD-ZC406 / A-MD-B-12	8-5/8 (219)	4-1/4 (108)	1 (25)	5 (127)	3.00 (1.364)



MD-B-19

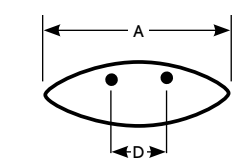
	PART#	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
		in (mm)	in (mm)	in (mm)	in (mm)	LBS (KGS)
ZINC	MD-B-19	12 (305)	6 (152)	1.9 (48)	6.0 (152)	26.0 (11.79)
ALUM	AMD-B-19	12 (305)	6 (152)	1.9 (48)	6.0 (152)	9.63 (4.37)

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

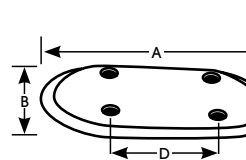
MD-B-15

	PART#	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
		in (mm)	in (mm)	in (mm)	in (mm)	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)	3.52 (1.60)



MD-M-24

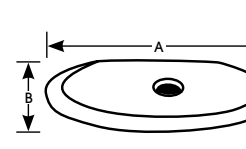
	PART#	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
		in (mm)	in (mm)	in (mm)	in (mm)	LBS (KGS)
ZINC	MD-M-24	4-3/4 (121)	2-0 (51)	3/4 (19)	1-1/4 (32)	0.73 (0.332)
ALUM	AMD-M-24	4-3/4 (121)	2-0 (51)	3/4 (19)	1-1/4 (32)	0.29 (0.132)



MD-M-25 / MD-A-25

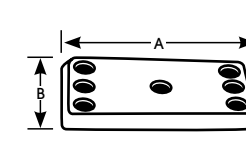
	PART#	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
		in (mm)	in (mm)	in (mm)	in (mm)	LBS (KGS)
ZINC	MD-M-25	9-1/4 (235)	3-3/8 (86)	3/4 (19)	SEE BELOW	4.00 (1.810)
ALUM	AMD-M-25	9-1/4 (235)	3-3/8 (86)	3/4 (19)	SEE BELOW	1.62 (0.736)

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



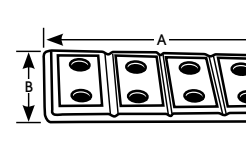
MD-Z-404 / A-90 / MD-900

	PART#	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
		in (mm)	in (mm)	in (mm)	in (mm)	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)



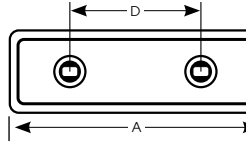
MD-M-30

	PART#	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
		in (mm)	in (mm)	in (mm)	in (mm)	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

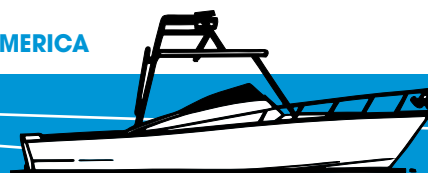
	PART#	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
		in (mm)	in (mm)	in (mm)	in (mm)	LBS (KGS)
ZINC	MD-M-40	7-1/2 (191)	2-1/2 (63)	1/2 (13)	2.00 (50)	2.10 (0.960)
ALUM	AMD-M-40	7-1/2 (191)	2-1/2 (63)	1/2 (13)	2.00 (50)	1.10 (0.500)



MD-40005875

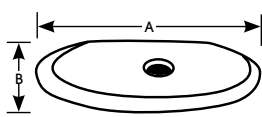
	PART#	A-LENGTH	B-WIDTH	C-DEPTH	D-C/C	WEIGHT
		in (mm)	in (mm)	in (mm)	in (mm)	LBS (KGS)
ZINC	MD-40005875	10-1/2 (266)	3-7/8 (98)	1-1/2 (38)	5-1/2 (140)	8.0 (3.63)
ALUM	AMD-40005875	10-1/2 (266)	3-7/8 (98)	1-1/2 (38)	5-1/2 (140)	3.40 (1.55)

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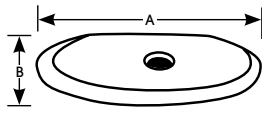
PLEASURE CRAFT HULL ANODES

BOLT ON ANODES



MD-N-1

		A-LENGTH		B-WIDTH		C-DEPTH		D-C/C		WEIGHT	
	PART#	in	(mm)	in	(mm)	in	(mm)	in	(mm)	LBS	(KGS)
ZINC	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)



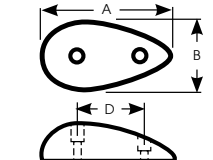
MD-N-1 HEAVY

		A-LENGTH		B-WIDTH		C-DEPTH		D-C/C		WEIGHT	
	PART#	in	(mm)	in	(mm)	in	(mm)	in	(mm)	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

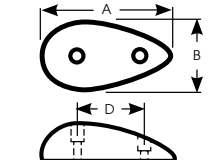
Teardrop Anodes are streamlined types for use on large surfaces of pleasure craft.

PLEASURE CRAFT TEAR DROP ANODES (FOR HULL)



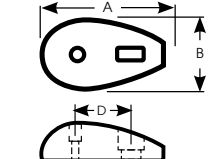
MD-T-20

		A-LENGTH		B-WIDTH		C-DEPTH		D-C/C		WEIGHT	
	PART#	in	(mm)	in	(mm)	in	(mm)	in	(mm)	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)



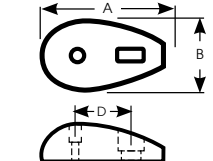
MD-T-21

		A-LENGTH		B-WIDTH		C-DEPTH		D-C/C		WEIGHT	
	PART#	in	(mm)	in	(mm)	in	(mm)	in	(mm)	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

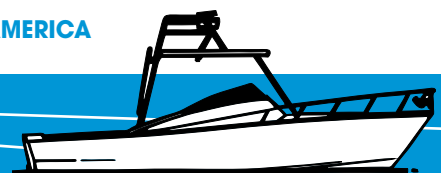
		A-LENGTH		B-WIDTH		C-DEPTH		D-C/C		WEIGHT	
	PART#	in	(mm)	in	(mm)	in	(mm)	in	(mm)	LBS	(KGS)
ZINC	MD-TD-S	3-3/8	(86)	1-3/4	(44)	5/8	(16)	1-1/2	(38)	0.55	(0.250)
ALUM	AMD-TD-S	3-3/8	(86)	1-3/4	(44)	5/8	(16)	1-1/2	(38)	0.19	(0.010)



MD-TD-L

		A-LENGTH		B-WIDTH		C-DEPTH		D-C/C		WEIGHT	
	PART#	in	(mm)	in	(mm)	in	(mm)	in	(mm)	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)

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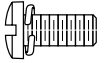
Reliance Shaft Anodes mount to the shaft with two stainless steel hardware options to choose from.

Allen head with lock washer
& bolt retaining washer



OR

Slotted head with lock washer
& bolt retaining washer

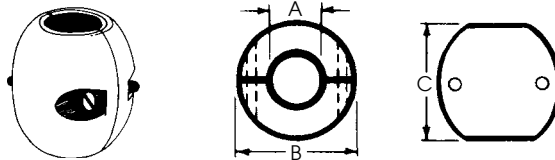


STREAMLINED SHAFT ANODES - MDX SERIES

ZINC ANODES			ALUMINUM ANODES			NOMINAL DIMENSIONS					
TYPE NUMBER	NOM. WEIGHT		TYPE NUMBER	NOM. WEIGHT		A-SHAFT		B-DIAMETER		C-LENGTH	
	lbs.	(kgs.)		lbs.	(kgs.)	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)
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)
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)
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)
MDX-5 - 2 BOLT	1.17	(0.532)	AMDX-5 - 2 BOLT	0.46	(0.209)	1-1/4	(32)	2-3/8	(60)	2-1/2	(64)
MDX-6 - 4 BOLT	2.40	(1.090)	AMDX-6 - 4 BOLT	0.98	(0.440)	1-3/8	(35)	2-3/4	(70)	2-1/2	(64)
MDX-7 - 4 BOLT	2.20	(1.000)	AMDX-7 - 4 BOLT	0.89	(0.400)	1-1/2	(38)	2-3/4	(70)	2-5/8	(68)
MDX-8 - 4 BOLT	2.53	(1.150)	AMDX-8 - 4 BOLT	0.99	(0.450)	1-3/4	(44)	3-1/4	(83)	2-7/8	(73)
MDX-8A - 4 BOLT	2.01	(0.914)	AMDX-8A - 4 BOLT	0.79	(0.359)	1-7/8	(47)	3-1/4	(83)	2-7/8	(73)
MDX-9 - 4 BOLT	2.01	(0.914)	AMDX-9 - 4 BOLT	0.79	(0.359)	2-0	(51)	3-1/4	(83)	2-7/8	(73)
MDX-9A - 4 BOLT	6.48	(2.945)	AMDX-9A - 4 BOLT	-	-	2-1/8	(54)	4-1/4	(105)	3-3/4	(95)
MDX-10 - 4 BOLT	6.00	(2.720)	AMDX-10 - 4 BOLT	2.22	(1.010)	2-1/4	(57)	4-1/4	(105)	4	(98)
MDX-10A - 4 BOLT	5.58	(2.536)	AMDX-10A - 4 BOLT	2.18	(0.991)	2-3/8	(60)	4-1/4	(105)	3-3/4	(95)
MDX-11 - 4 BOLT	5.13	(2.332)	AMDX-11 - 4 BOLT	2.00	(0.909)	2-1/2	(64)	4-1/4	(105)	3-3/4	(95)
MDX-12 - 4 BOLT	6.92	(3.145)	AMDX-12 - 4 BOLT	2.70	(1.227)	2-3/4	(70)	4-3/4	(121)	3-5/8	(92)
MDX-13 - 4 BOLT	5.94	(2.700)	AMDX-13 - 4 BOLT	2.32	(1.055)	3-0	(76)	4-3/4	(121)	3-5/8	(92)
MDX-14 - 4 BOLT	11.10	(5.045)	AMDX-14 - 4 BOLT	4.33	(1.968)	3-1/4	(83)	5-5/8	(117)	3-7/8	(98)
MDX-15 - 4 BOLT	9.80	(4.455)	AMDX-15 - 4 BOLT	3.83	(1.741)	3-1/2	(89)	5-5/8	(117)	3-7/8	(98)
MDX-16 - 4 BOLT	8.50	(3.860)	AMDX-16 - 4 BOLT	3.15	(1.430)	3-3/4	(95)	5-5/8	(117)	3-7/8	(98)
MDX-17 - 4 BOLT	6.70	(3.040)	AMDX-17 - 4 BOLT	5.54	(2.510)	4-0	(102)	5-5/8	(117)	3-3/4	(95)
MDX-18 - 4 BOLT	11.5	(5.220)	AMDX-18 - 4 BOLT	4.60	(2.09)	4-1/2	(115)	6-3/4	(171)	3-3/4	(95)
MDX-20 - 4 BOLT	13.00	(5.900)	AMDX-20 - 4 BOLT	-	-	5-1/2	(140)	7-1/2	(190)	3-3/4	(95)

STREAMLINED SHAFT ANODES - MDX HEAVY SERIES 4 BOLT

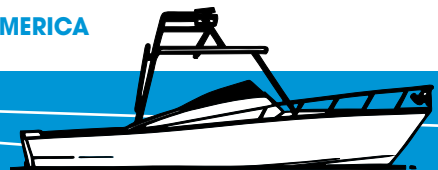
ZINC ANODES			ALUMINUM ANODES			NOMINAL DIMENSIONS					
TYPE NUMBER	NOM. WEIGHT		TYPE NUMBER	NOM. WEIGHT		A-SHAFT		B-DIAMETER		C-LENGTH	
	lbs.	(kgs.)		lbs.	(kgs.)	in	(mm)	in	(mm)	in	(mm)
MDX-0 - HEAVY - 2 BOLT	1.26	(0.573)	AMDX-0 - HEAVY - 2 BOLT	0.49	(0.223)	1/2	(13)	2-1/8	(54)	2-1/8	(54)
MDX-4 - HEAVY - 2 BOLT	1.60	(0.730)	AMDX-4 - HEAVY - 2 BOLT	0.95	(0.430)	1-1/8	(29)	2-3/8	(60)	2-1/2	(64)
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)	2-1/2	(64)
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)	2-7/8	(73)
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)	2-7/8	(73)
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)	3-3/8	(86)
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)	3-3/8	(86)
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)	4	(98)
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)	4	(98)
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)	3-5/8	(92) NEW
MDX-13 - HEAVY - 4 BOLT	9.20	(4.170)	AMDX-13 - HEAVY - 4 BOLT	3.40	(1.540)	3-0	(76)	5	(127)	4	(98)
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)	3-3/4	(95) NEW
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)	3-3/4	(95) NEW
MDX-17 - HEAVY - 4 BOLT	14.0	(6.350)	AMDX-17 - HEAVY - 4 BOLT	5.54	(2.51)	4-0	(102)	6-3/4	(171)	3-3/4	(95)
MDX-19 - HEAVY - 4 BOLT	16.0	(7.260)	AMDX-19 - HEAVY - 4 BOLT	-	-	5-0	(127)	7-1/2	(190)	3-3/4	(95)




RELiance PRODUCTS - 100% MANUFACTURED IN NORTH AMERICA



Pleasure Craft
Anodes



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

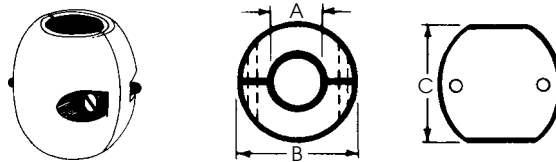
Allen head with lock washer & bolt retaining washer 

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		TYPE NUMBER	NOM. WEIGHT		A-SHAFT		B-DIAMETER		C-LENGTH	
	lbs.	(kgs.)		lbs.	(kgs.)	in	(mm)	in	(mm)	in	(mm)
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)
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)
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)
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)
MDX-9A - 2 BOLT	6.48	(2.945)	AMDX-9A - 2 BOLT	-	-	2-1/8	(54)	4-1/2	(114)	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)
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)
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)
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)
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)
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)
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)
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)
MDX-17 - 2 BOLT	6.70	(3.040)	AMDX-17 - 2 BOLT	4.60	(2.09)	4-0	(102)	5-5/8	(143)	3-3/4	(95)

NEW

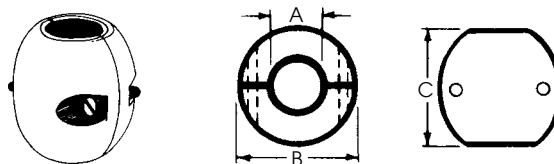


METRIC SIZES

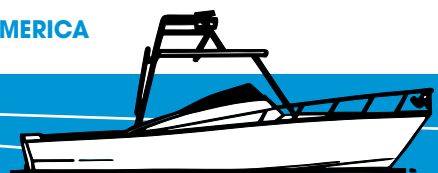
STREAMLINED SHAFT ANODES - MDX METRIC SERIES

ZINC ANODES		ALUMINUM ANODES		NOMINAL DIMENSIONS							
TYPE NUMBER	NOM. WEIGHT		TYPE NUMBER	NOM. WEIGHT		A-SHAFT		B-DIAMETER		C-LENGTH	
	lbs.	(kgs.)		lbs.	(kgs.)	(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)	
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)	
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)	
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)	
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)	
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)	
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)	
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)	
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)	
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)	
MDX-85MM - 4 BOLT	-	-	AMDX-85MM - 4 BOLT	-	-	85mm	Weights and Dimensions Available Jan 2023				

NEW



RELiance PRODUCTS - 100% MANUFACTURED IN NORTH AMERICA



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



MDG - EURO STYLE SHAFT ANODES

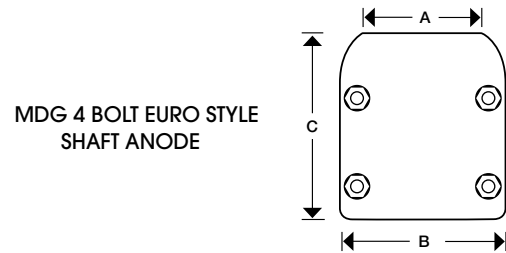
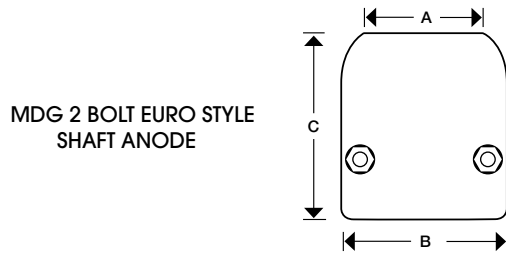


ZINC ANODES			ALUMINUM ANODES			NOMINAL DIMENSIONS					
TYPE NUMBER	NOM. WEIGHT		TYPE NUMBER	NOM. WEIGHT		A-SHAFT		B-DIAMETER		C-LENGTH	
	lbs.	(kgs.)		lbs.	(kgs.)	in	(mm)	in	(mm)	in	(mm)
MDG-34 (2 BOLT)	1.98	(0.90)	AMGD-34	0.76	(0.35)	3/4	(19)	2-1/4	(56)	2-1/2	(65)
MDG-78 (2 BOLT)	-	-	AMGD-78	-	-	7/8	(22)	-	-	-	-
MDG-1 (2 BOLT)	1.80	(0.82)	AMGD-1	0.69	(0.31)	1.0	(25.4)	2-1/4	(56)	2-1/2	(65)
MDG-118 (2 BOLT)	1.63	(0.74)	AMGD-118	0.63	(0.29)	1-1/8	(29)	2-1/4	(56)	2-1/2	(65)
MDG-114 (2 BOLT)	3.79	(1.72)	AMGD-114	1.46	(0.66)	1-1/4	(32)	3.0	(75)	3-1/8	(78)
MDG-138 (2 BOLT)	3.60	(1.635)	AMGD-138	1.40	(0.64)	1-3/8	(34.8)	3.0	(75)	3-1/8	(78)
MDG-112 (2 BOLT)	3.41	(1.55)	AMGD-112	1.33	(0.603)	1-1/2	(38)	3.0	(75)	3-1/8	(78)
MDG-134 (4 BOLT)	6.72	(3.05)	AMGD-134	2.60	(1.18)	1-3/4	(44.4)	3-1/2	(90)	3-7/8	(100)
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)

MDG METRIC SERIES - EURO STYLE SHAFT ANODES



ZINC ANODES			ALUMINUM ANODES			NOMINAL DIMENSIONS					
TYPE NUMBER	NOM. WEIGHT		TYPE NUMBER	NOM. WEIGHT		A-SHAFT		B-DIAMETER		C-LENGTH	
	lbs.	(kgs.)		lbs.	(kgs.)	in	(mm)	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)	2-1/2	(65)
MDG-30MM (2 BOLT)	1.60	(0.73)	AMGD-30MM	0.60	(0.27)	1-1/8	(30)	2-1/4	(56)	2-1/2	(65)
MDG-35MM (2 BOLT)	3.60	(1.63)	AMGD-35MM	1.39	(0.63)	1-3/8	(35)	3.0	(75)	3-1/8	(78)
MDG-40MM (2 BOLT)	3.28	(1.49)	AMGD-40MM	1.27	(0.576)	1-1/2	(40)	3.0	(75)	3-1/8	(78)
MDG-45MM (4 BOLT)	6.66	(3.02)	AMGD-45MM	2.58	(1.17)	1-3/4	(45)	3-1/2	(90)	3-7/8	(100)
MDG-50MM (4 BOLT)	6.11	(2.78)	AMGD-50MM	2.36	(1.08)	2.0	(50)	3-1/2	(90)	3-7/8	(100)
MDG-60MM (4 BOLT)	4.82	(2.18)	AMGD-60MM	1.87	(0.85)	2-3/8	(60)	3-1/2	(90)	3-7/8	(100)
MDG-70MM (4 BOLT)	-	-	AMGD-70MM	-	-	-	(70)	-	-	-	-

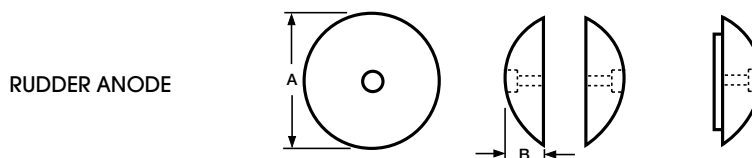


Pleasure Craft Rudder Anodes

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		TYPE NUMBER	NOM. WEIGHT		A DIAMETER		DIMENSION B	
	lbs.	(kg)		lbs.	(kg)	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)



RELIANCE PRODUCTS - 100% MANUFACTURED IN NORTH AMERICA



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

LIMITED CLEARANCE ANODES - MDC SERIES

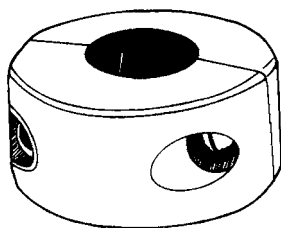
ZINC ANODES			ALUMINUM ANODES			NOMINAL DIMENSIONS					
TYPE NUMBER	NOM. WEIGHT		TYPE NUMBER	NOM. WEIGHT		A-SHAFT DIA.		B-DIAMETER		C-THICKNESS	
	lbs.	(kg)		lbs.	(kg)	in	(mm)	in	(mm)	In	(mm)
MDC-A	0.90	(0.410)	AMDC-A	0.39	(0.177)	3/4	(19)	2-1/2	(60)	5/8	(15)
MDC-1	0.67	(0.305)	AMDC-1	0.26	(0.118)	3/4	(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

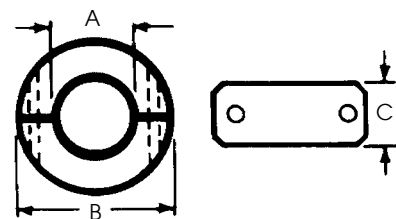
ZINC ANODES			ALUMINUM ANODES			NOMINAL DIMENSIONS					
TYPE NUMBER	NOM. WEIGHT		TYPE NUMBER	NOM. WEIGHT		A-SHAFT DIA.		B-DIAMETER		C-THICKNESS	
	lbs.	(kg)		lbs.	(kg)	in	(mm)	in	(mm)	In	(mm)
MDC-0 - HEAVY	0.70	(0.318)	AMDC-0 - HEAVY	0.27	(0.123)	1/2	(13)	2-1/8	(54)	1-0	(25)
MDC-0A - HEAVY	0.73	(0.332)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

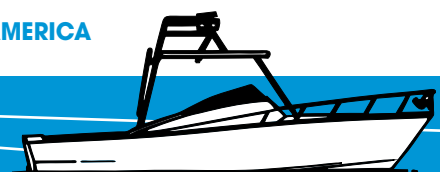
ZINC ANODES			ALUMINUM ANODES			NOMINAL DIMENSIONS					
TYPE NUMBER	NOM. WEIGHT		TYPE NUMBER	NOM. WEIGHT		A-SHAFT DIA.		B-DIAMETER		C-THICKNESS	
	lbs.	(kg)		lbs.	(kg)	in	(mm)	in	(mm)	In	(mm)
MDC-20	1.00	(0.450)	AMDC-20	0.50	(0.230)		20mm	2-1/8	(54)	1-1/4	(33)
MDC-25	1.05	(0.477)	AMDC-25	0.52	(0.236)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

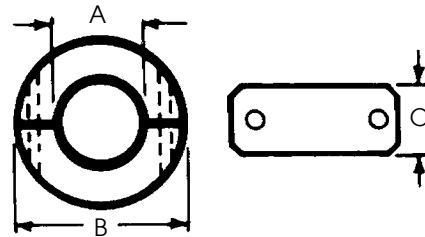
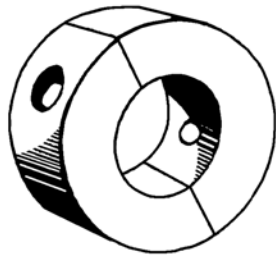


RELiance PRODUCTS - 100% MANUFACTURED IN NORTH AMERICA



BENETEAU LC EURO COLLAR ANODES

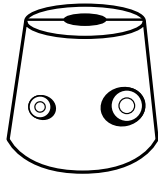
ZINC ANODES			ALUMINUM ANODES			NOMINAL DIMENSIONS					
TYPE NUMBER	NOM. WEIGHT		TYPE NUMBER	NOM. WEIGHT		A-SHAFT DIA.		B-DIAMETER		C-THICKNESS	
	lbs.	(kg)		lbs.	(kg)	in	(mm)	in	(mm)	in	(mm)
MD-BLC EURO 25MM	0.90	(0.410)	AMD-BLC EURO 25MM	0.39	(0.177)	1	(25MM)	3	(75)	5/8	(15)
MD-BLC EURO 30MM	0.90	(0.410)	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

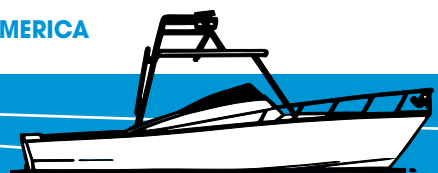
ZINC ANODES			ALUMINUM ANODES			NOMINAL DIMENSIONS					
TYPE NUMBER	NOM. WEIGHT		TYPE NUMBER	NOM. WEIGHT		A-SHAFT DIA.		B-DIAMETER		C-THICKNESS	
	lbs.	(kg)		lbs.	(kg)	in	(mm)	in	(mm)	in	(mm)
MD-BEN STD LC 1"	0.49	(0.223)	AMD-BEN STD LC 1"	0.25	(0.114)	1	(25MM)	3	(75)	5/8	(16)
MD-BEN STD LC 1-1/8"	0.49	(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



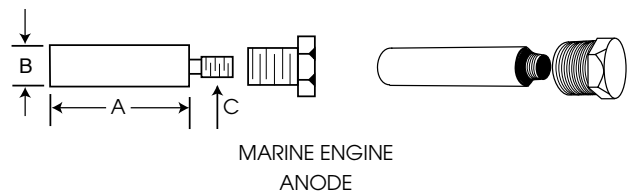
Reliance MDE Series Marine Anodes consist of a brass plug with anode attached.

PLEASURE CRAFT MARINE ENGINE ANODES (WITH BRASS PLUG)

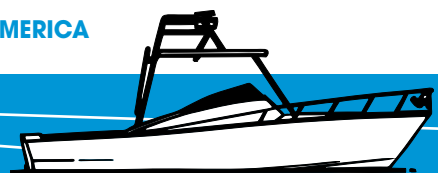
ZINC ANODES			NOMINAL DIMENSIONS						
TYPE NUMBER	NOM. WEIGHT		A-LENGTH		B-DIAMETER		PLUG OD (NPT)		C-PLUG
	lbs.	(kg)	in	(mm)	in	(mm)	in	(mm)	THREAD INT.
ENGINE ANODES - COMPLETE WITH BRASS PLUG									
MDE-00 - COMPLETE	0.05	(0.023)	2-0	(50)	1/4	(6)	1/8	(3)	1/4-20 NC
MDE-0 - COMPLETE	0.05	(0.023)	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-0AZ	0.08	(0.036)	2-1/2	(64)	3/8	(10)	1/4	(6)	5/16-18 NC
MDE-0HZ	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	(0.040)	3/4"



RELIANCE PRODUCTS - 100% MANUFACTURED IN NORTH AMERICA

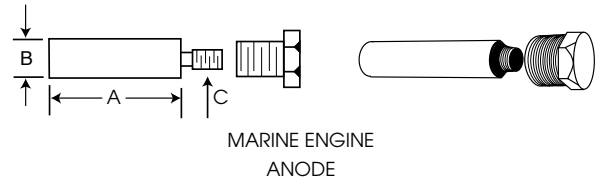


Reliance Engine Anodes consist of a brass plug with anode attached

PLEASURE CRAFT CATERPILLAR ENGINE ANODES

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

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



DETROIT DIESEL ENGINE ZINC ANODE (ZINC ONLY)

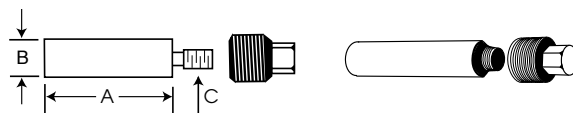


ZINC ANODES			NOMINAL DIMENSIONS						
TYPE NUMBER	NOM. WEIGHT		A-LENGTH		B-DIAMETER		PLUG OD (NPT)		C-PLUG
	lbs.	(kg)	in	(mm)	in	(mm)	in	(mm)	THREAD INT.
MD-8515842	0.25	(0.11)	2-1/8	(54)	3/4	(19)	3/4	(19)	5/8-11 UNC
MD-8515850	0.38	(0.17)	3-3/8	(86)	3/4	(19)	3/4	(19)	5/8-11 UNC
MD-8517479	0.16	(0.07)	2-0	(50)	5/8	(16)	1/2	(13)	7/16-14 UNC
MD-8925832	0.08	(0.18)	1-1/2	(38)	1/2	(13)	3/8	(10)	3/8-16 UNC

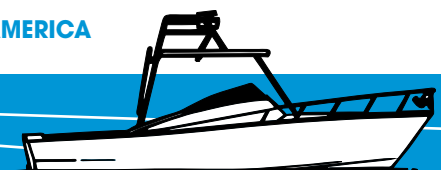
DETROIT DIESEL ENGINE ZINC ANODE - COMPLETE WITH BRASS PLUG



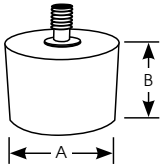
ZINC ANODES			NOMINAL DIMENSIONS						
TYPE NUMBER	NOM. WEIGHT		A-LENGTH		B-DIAMETER		PLUG OD (NPT)		C-PLUG
	lbs.	(kg)	in	(mm)	in	(mm)	in	(mm)	THREAD INT.
MD-8515842C	0.53	(0.24)	2-1/8	(54)	3/4	(19)	3/4	(19)	5/8-11 UNC
MD-8515850C	0.53	(0.24)	3-3/8	(86)	3/4	(19)	3/4	(19)	5/8-11 UNC
MD-8517479C	0.30	(0.14)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



RELiance PRODUCTS - 100% MANUFACTURED IN NORTH AMERICA



GALVION ZINC ANODES



MD-ZDM-625

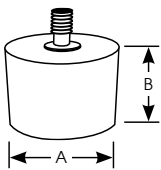
	A - DIAMETER		B - LENGTH		INT THREAD	BRASS PLUG NPT		WEIGHT	
TYPE NUMBER	IN	(MM)	IN	(MM)		IN	(MM)	LBS	(KGS)
MD-ZDM-625	0.625	(17)	0.75	(19)	12 - 28	.500	(13)	0.057	(0.02)



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

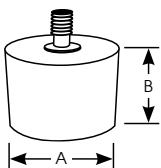
	A - DIAMETER		B - LENGTH		INT THREAD	BRASS PLUG NPT		WEIGHT	
TYPE NUMBER	IN	(MM)	IN	(MM)		IN	(MM)	LBS	(KGS)
MD-ZDM-825	0.82	(21)	0.75	(19)	12 - 28	0.75	(19)	0.10	(0.04)



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	(0.48)

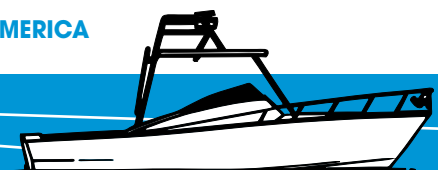


MD-ZDM-1050 BRASS PLUG

	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 PRODUCTS - 100% MANUFACTURED IN NORTH AMERICA



Reliance Engine Anodes consist of a brass plug with anode attached

VOLVO PENTA DIESEL ENGINE ZINC ANODES



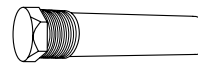
ZINC ANODES			NOMINAL DIMENSIONS						
TYPE NUMBER	NOM. WEIGHT		A-LENGTH		B-DIAMETER		PLUG OD (NPT)		C-PLUG
	lbs.	(kg)	in	(mm)	in	(mm)	in	(mm)	THREAD INT.
MD-838929	0.09	(0.041)	1-3/4	(44)	11/16	(17)	-	-	M8
MD-823661	0.32	(0.145)	1-3/4	(44)	1-0	(26)	-	-	3/8-16 UNC
MD-3858995	0.14	(0.060)	1-1/2	(38)	1/2	(13)	-	-	3/8-16 UNC



MD-838929



MD-823661

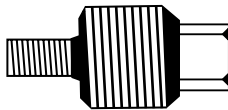


MD-3858995

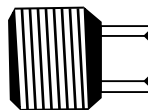
PLUGS FOR VOLVO PENTA DIESEL ENGINE ZINC ANODES



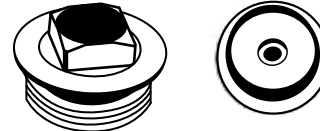
ZINC ANODES			NOMINAL DIMENSIONS		
TYPE NUMBER	NOM. WEIGHT		SIZE		WRENCH
	lbs.	(kg)			
MALE PLUG FOR MD-838929	0.09	(0.041)	1/2" NPT	STUD THREAD M8	13MM
FEMALE PLUG FOR MD-823661	0.32	(0.145)	1/2" NPT	INTERNAL THREAD 7/16" UNC	13MM
BRASS PLUG FOR MD-3858995	0.14	(0.060)	1" NPT	INTERNAL THREAD 3/8" UNC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



MALE PLUG FOR MD-838929



FEMALE PLUG FOR MD-838929

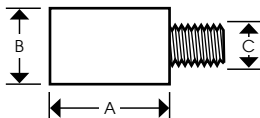


BRASS PLUG FOR MD-823661

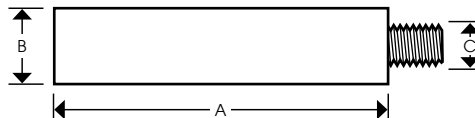
ZF TRANSMISSION ZINC ANODES



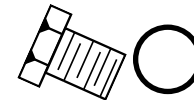
ZINC ANODES			NOMINAL DIMENSIONS						
TYPE NUMBER	NOM. WEIGHT		A-LENGTH		B-DIAMETER		PLUG OD (NPT)		C-PLUG
	lbs.	(kg)	in	(mm)	in	(mm)	in	(mm)	THREAD INT.
3217307021-01	0.21	(0.095)	3/4	(20)	5/8	(15)	-	-	5/16-18 UNC
3217108021	0.16	(0.010)	2-1/2	(64)	5/8	(15)	-	-	5/16-18 UNC
BRASS PLUG FOR 3217307021-01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



3217307021-01



ZF-3217108021

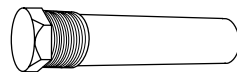


BRASS PLUG FOR ZF TRANSMISSION

MASE MARINE GENERATORS ZINC ANODE (WITH BRASS PLUG)



ZINC ANODES			NOMINAL DIMENSIONS						
TYPE NUMBER	NOM. WEIGHT		A-LENGTH		B-DIAMETER		PLUG OD (NPT)		C-PLUG
	lbs.	(kg)	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

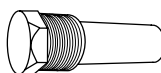


MD-80162

NANNI ENGINE ZINC ANODE (WITH BRASS PLUG)



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

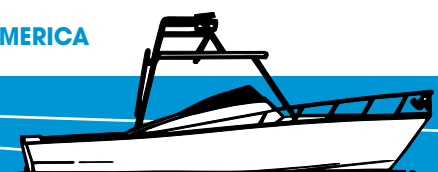


MD-N494635

RELiance PRODUCTS - 100% MANUFACTURED IN NORTH AMERICA



Pleasure Craft
Anodes



YANMAR ENGINE ANODES COMPLETE WITH BRASS PLUG

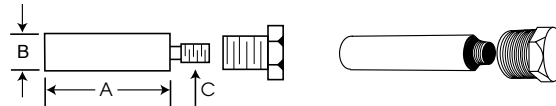
YANMAR ANODES COMPLETE WITH BRASS PLUG

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

* Copper Sealing Washer Included

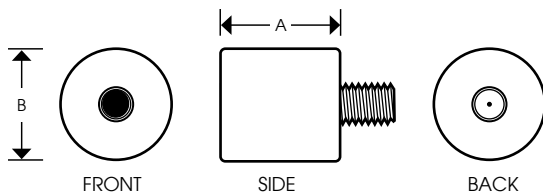
YANMAR ANODES ZINC ONLY - BRASS PLUG NOT INCLUDED

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

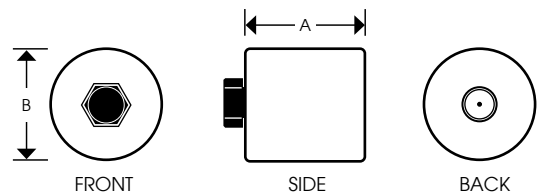


REFERENCE ZINC ANODES

ZINC ANODES			ALUMINUM ANODES			NOMINAL DIMENSIONS			
TYPE NUMBER	NOM. WEIGHT		TYPE NUMBER	NOM. WEIGHT		A - LENGTH		B - WIDTH	
	lbs.	(kg)		lbs.	(kg)	in	(mm)	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	(0.18)	AMD-RZG-2-27.5	0.07	(0.04)	3/4	(20)	1-1/8	(25)

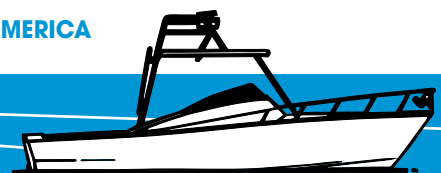


MD-RZG-1



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

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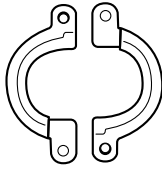


BOLT ON

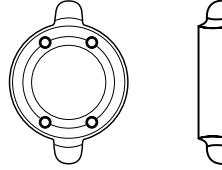
PLEASURE CRAFT YANMAR

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)

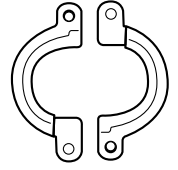
YANMAR
SAILDRIVE
196440-02660



YANMAR
196420-02652



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



ZINC FOR SALT WATER
ALUMINUM FOR SALT AND BRACKISH WATER

Keel Cooler Anodes

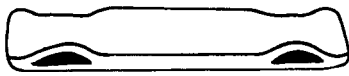
Reliance Anodes for Keel Coolers are designed to provide maximum protection to your fresh water cooling system, by protecting the heat exchanger from salt water galvanic corrosion.

KEEL COOLER ANODES

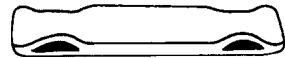
ZINC ANODES		ALUMINUM ANODES		NOMINAL DIMENSIONS			
TYPE NUMBER	NOM. WEIGHT lbs. (kg)	TYPE NUMBER	NOM. WEIGHT lbs. (kg)	A-LENGTH		B-WIDTH	
				in	(mm)	in	(mm)
MD-KK-1	1.10 (0.500)	AMD-KK-1	0.40 (0.182)	2-5/8	(67)	2-3/4	(70)
MD-KK-2	1.25 (0.568)	AMD-KK-2	0.48 (0.218)	2-3/4	(70)	3-1/4	(83)
MD-KK-3	3.25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



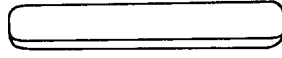
X-45-3



X-52-3



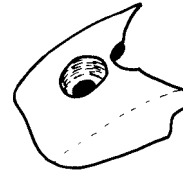
X-47-3



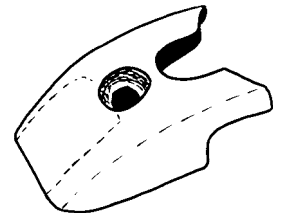
X-58



KK-1



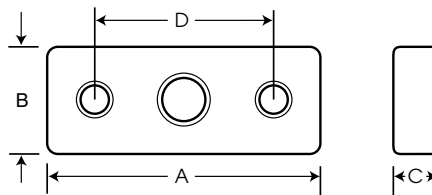
KK-2



KK-3

FERNSTRUM KEEL COOLER ANODES

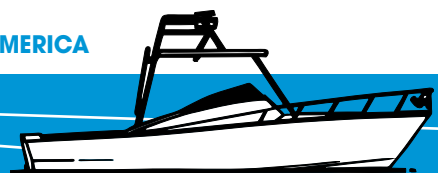
ZINC ANODES		ALUMINUM ANODES		NOMINAL DIMENSIONS									
TYPE NUMBER	NOM. WEIGHT lbs. (kg)	TYPE NUMBER	NOM. WEIGHT lbs. (kg)	A-LENGTH		B-WIDTH	C-THICKNESS	D-HOLE DISTANCE		HOLE DIAMETER			
				IN	(MM)	IN	(MM)	IN	(MM)	IN	(MM)	IN	(MM)
MD-1274A	2.20 (1.00)	AMD-1274A	0.88 (0.40)	5.00	(127)	2.00	(50)	1-1/16	(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	(224)	2.00	(50)	1-1/16	(30)	4 c/c	(101) c/c	9/16	(14)
MD-3583A	11.00 (4.99)	AMD-3583A	4.30 (1.95)	9.00	(229)	2.49	(63)	2.080	(30)	4 c/c	(101) c/c	9/16	(14)



RELIANCE PRODUCTS - 100% MANUFACTURED IN NORTH AMERICA



Pleasure Craft
Anodes



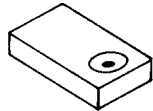
These Reliance Outdrive Anodes are direct replacement components for Suzuki and Nissan/Tohatsu engines and meet specifications of anodes on original equipment.

PLEASURE CRAFT ANODES FOR SUZUKI OUTDRIVES

ZINC ANODES			ALUMINUM ANODES			HORSEPOWER	THREAD SIZE
TYPE NUMBER	NOM. WEIGHT		TYPE NUMBER	NOM. WEIGHT			
	lbs.	(kg)		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



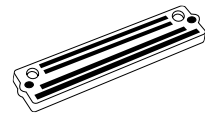
MD-55320-95310



MD-55125-87D00



MD-55125-96310



MD-3C7602181

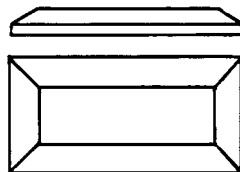
PLEASURE CRAFT ANODES FOR NISSAN/TOHATSU OUTDRIVES

ZINC ANODES			ALUMINUM ANODES			HORSEPOWER
TYPE NUMBER	NOM. WEIGHT		TYPE NUMBER	NOM. WEIGHT		
	lbs.	(kg)		lbs.	(kg)	
MD3C7602181 (MD55321-94900)	1.77	(0.805)	N/A	N/A		

Pleasure Craft Zinc Plates

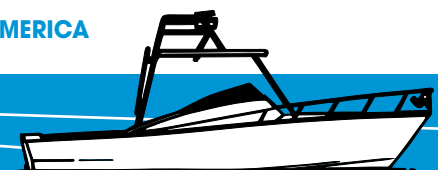
ZINC & ALUMINUM PLATES WITH OR WITHOUT BONDING WIRE

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



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

RELIANCE PRODUCTS - 100% MANUFACTURED IN NORTH AMERICA

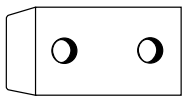


These Reliance Outdrive Anodes are direct replacement components for Yamaha engines and meet specifications of anodes on original equipment.

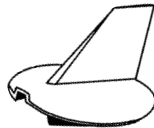
PLEASURE CRAFT ANODES FOR YAMAHA OUTDRIVES

ZINC ANODES			ALUMINUM ANODES			HORSEPOWER	THREAD SIZE
TYPE NUMBER	NOM. WEIGHT		TYPE NUMBER	NOM. WEIGHT			
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	

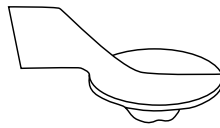
NEW



MD-6E5-45251-00



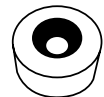
MD-6K1-45371-00
MD-6E5-45371-01



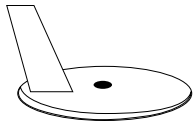
MD-688-45371-02



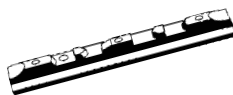
MD-6J9-45371-00



MD-688-45251-01



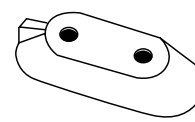
MD-664-45371-01



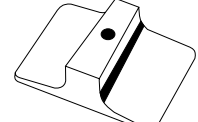
MD-6H1-45251-02



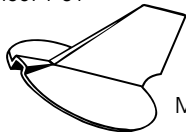
MD-6G5-45251-01



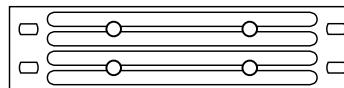
MD-6E0-45251-11



MD-61N-45251-01



MD-61A-45371-00



NEW
MD-6AW-45251-00

Yamaha Kits

AVAILABLE IN ZINC & ALUMINUM

YAMAHA OUTDRIVES KITS

MDY150KIT

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

Fits Yamaha 150-200 HP Outboards



MD-6G5-45251-01



MD-6J9-45371-00

MDY150CRKIT

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

Fits Yamaha 150-200 HP Outboards (Counter Rotation)



MD-6G5-45251-01



MD-MD6-K145371-00

MDY200250KIT

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

Fits Yamaha 200-250 HP Outboards



MD-6G5-45251-01



MD-61A-45371-00

MDY6090KIT

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



MD-688-45371-02



MD-6H1-45251-02

NEW

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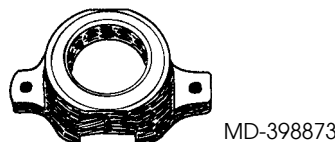
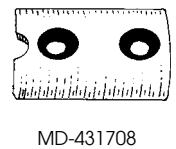
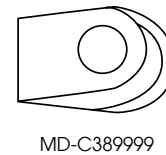
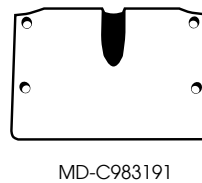
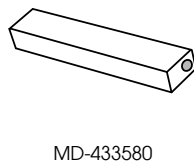
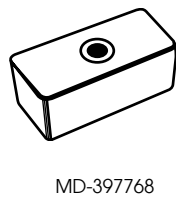
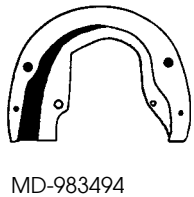
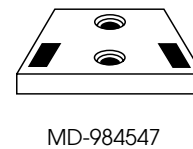
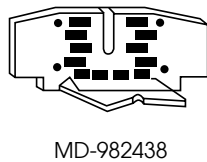
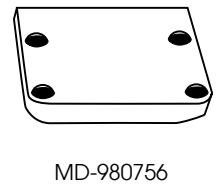
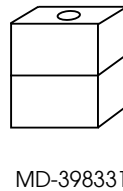
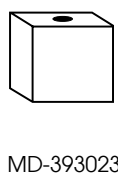
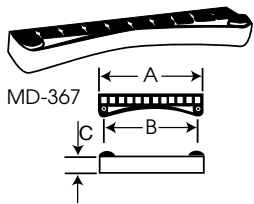
Pleasure Craft
Anodes



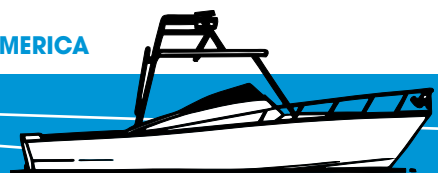
These Reliance Outdrive Anodes are direct replacement components for OMC engines and meet specifications of anodes on original equipment.

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 NEW
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

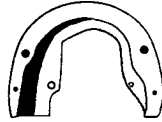


RELIANCE PRODUCTS - 100% MANUFACTURED IN NORTH AMERICA

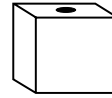


BRP OMC STRINGER KIT

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



MD-983494



MD-393023

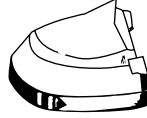


MD-431708

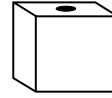


BRP OMC COBRA KIT

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



MD-984513



MD-393023

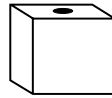


MD-431708



BRP OMC 50-75HP KIT

- 1 - MD-393023
- 1 - MD-392462



MD-393023

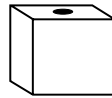


MD-392462



BRP OMC V4-V6 KIT

- 1 - MD-393023
- 1 - MD-392123



MD-393023

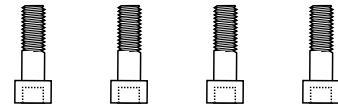


MD-392123



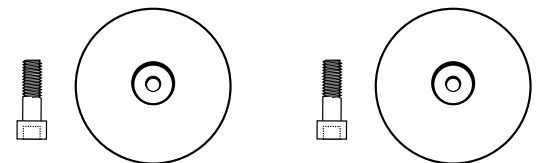
BNT - 1 BENNET TRIM TAB ZINC ANODE KIT (2 PER KIT) - ZINC ALUMINUM

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)

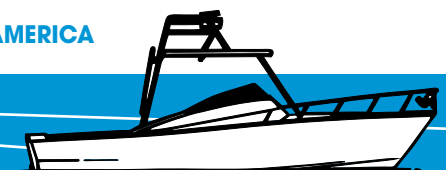
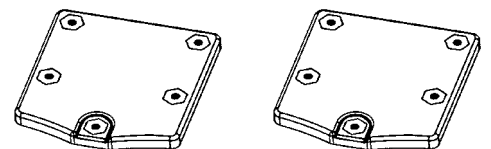
ZINC ANODES			ALUMINUM ANODES		
TYPE NUMBER	NOM. WEIGHT		TYPE NUMBER	NOM. WEIGHT	
	lbs.	(kg)		lbs.	(kg)
MD-FF-2 PROP	1.00	(0.45)	AMD-FF-2 PROP	0.45	(0.20)



MD-FF-2 PROP

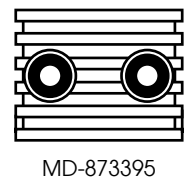
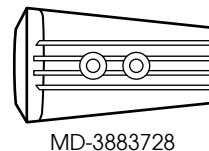
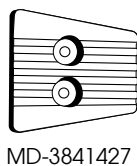
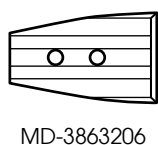
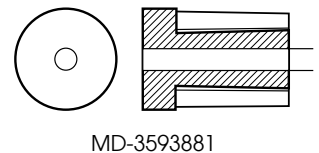
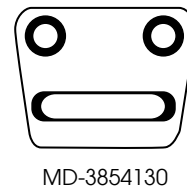
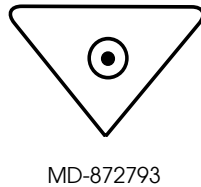
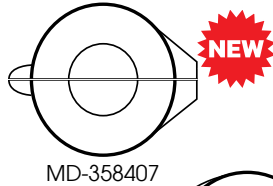
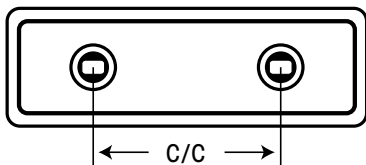
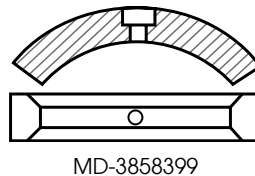
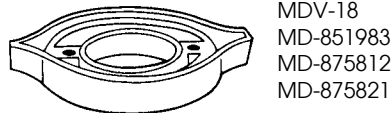
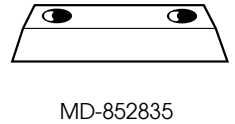
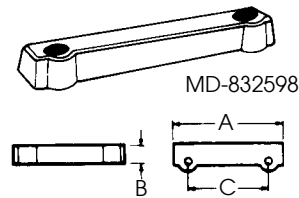
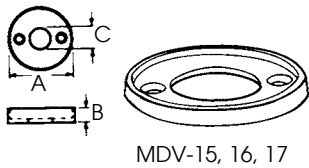
ZEUS POD TRIM TAB KIT - 879150A65 - (2 PER KIT)

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)

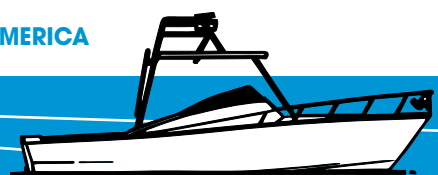


PLEASURE CRAFT ANODES FOR VOLVO OUTDRIVES

ZINC ANODES			ALUMINUM ANODES			ENGINE MODEL	NOMINAL DIMENSIONS					
TYPE NUMBER	NOM. WEIGHT		TYPE NUMBER	NOM. WEIGHT			A - LENGTH		B - WIDTH		C - DEPTH	
	lbs.	(kg)		lbs.	(kg)		in	(mm)	in	(mm)	in	(mm)
MDV-15	0.36	(0.164)	AMDV-15	0.14	(0.064)	100	3-7/8	(98)	7/16	(11)	2-0	(51)
MDV-16	0.43	(0.195)	AMDV-16	0.17	(0.077)	200	4-1/8	(105)	3/8	(10)	2-1/4	(57)
MDV-17	0.63	(0.286)	AMDV-17	0.25	(0.114)	250-270	4-1/2	(114)	3/8	(10)	2-1/4	(57)
MDV-18	1.56	(1.540)	AMDV-18	0.61	(0.277)	280-290	4-3/4	(121)	1-3/8	(35)	2-3/8	(60)
MD-358407	3.54	(0.145)	AMD-358407	1.30	(0.590)	—	4	(102)	1-3/4	(44)	-	-
MD-823661	0.32	(0.145)	AMD-823661	0.13	(0.059)	Diesel	-	-	-	-	-	-
MD-832598	1.88	(0.855)	AMD-832598	0.73	(0.332)	250-270	7-3/8	(187)	7/8	(22)	5-3/4	(146)
MD-851983	1.11	(0.505)	AMD-851983	0.43	(0.195)	120F Sail Drive	3-3/4	(95)	1-1/16	(27)	3-11/16	(94)
MD-852835	1.67	(0.759)	AMD-852835	0.65	(0.295)	290	5-1/4	(132)	1-0	(25)	3-3/8	(86)
MD-875812	1.42	(0.645)	AMD-875812	0.55	(0.250)	Sail Drive	4-1/4	(108)	1-3/4	(44)	2-1/8	(54)
MD-875821	1.29	(0.586)	AMD-875821	0.50	(0.227)	290	4-3/8	(111)	1-3/8	(35)	3-3/8	(86)
MD-838929	0.09	(0.041)	AMD-838929	0.04	(0.018)	—	2	(50)	1-1/4	(32)	-	-
MD-3588745	1.90	(0.860)	AMD-3588745	0.83	(0.380)	Engine Anode	4-1/2	(114)	1-1/4	(32)	3-3/8	(86)
MD-3593881	1.60	(0.727)	AMD-3593881	0.64	(0.291)	—	2	(50)	2-3/4	(70)	-	-
MD-3841427	2.40	(1.090)	AMD-3841427	1.04	(0.470)	—	3-3/4	(95)	3 1/2	(89)	1-3/16	(30)
MD-3854130	2.42	(1.100)	AMD-3854130	0.95	(0.432)	—	3.7	(94)	3.7	(94)	1.5	(38)
MD-3855411	2.33	(1.059)	AMD-3855411	0.90	(0.409)	—	-	-	-	-	-	-
MD-3863206	1.57	(0.710)	AMD-3863206	0.77	(0.350)	—	5-1/4	(132)	3.1	(78)	1-3/8	(35)
MD-3858399	0.60	(0.270)	AMD-3858399	0.30	(0.140)	—	-	-	-	-	-	-
MD-3883728	2.89	(1.310)	AMD-3883728	1.10	(0.500)	—	6	(153)	3-1/2	(89)	1.1	(27)
MD-872139	1.43	(0.650)	AMD-872139	0.63	(0.286)	—	5-1/4	(132)	1-3/4	(44)	1-1/8	(29)
MD-873395	0.80	(0.360)	AMD-873395	0.28	(0.130)	—	2	(51)	1-5/8	(41)	1-1/4	(32)
MD-872793	0.22	(0.100)	AMD-872793	0.09	(0.041)	—	5-1/4	(132)	1-3/4	(44)	1-1/8	(29)
MD-22651246	3.40	(1.540)	N/A	N/A	SAIL DRIVE	4	(102)	1-3/4	(44)	-	-	-
MD-40005206 (MD-21174476)	10.00	(3.910)	AMD-40005206 (AMD-21174476)	5.00	(2.270)	—	14	(356)	3.32	(80)	1.18	(30)
MD-40005875	7.60	(2.970)	AMD-40005875	3.40	(1.550)	—	10-1/2	(266)	3.32	(80)	1.18	(30)



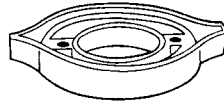
RELIANCE PRODUCTS - 100% MANUFACTURED IN NORTH AMERICA



VOLVO PENTA 280 ANODE KIT

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

HARDWARE INCLUDED



MDV-18

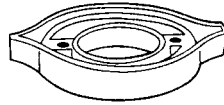


MD-832598

VOLVO PENTA 280 DUO PROP ANODE KIT

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

HARDWARE INCLUDED



MD-875821

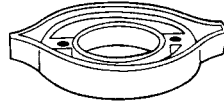


MD-832598

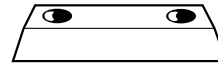
VOLVO PENTA 290 ANODE KIT

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

HARDWARE INCLUDED



MDV-18

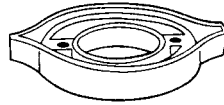


MD-852835

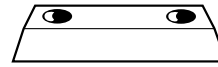
VOLVO PENTA 290 DUO PROP ANODE KIT

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

HARDWARE INCLUDED



MD-875821



MD-852835

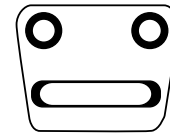
VOLVO PENTA SX ANODE KIT

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

HARDWARE INCLUDED



MD-3855411
1/4-20 UNC

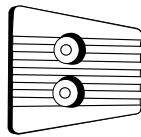


MD-3854130

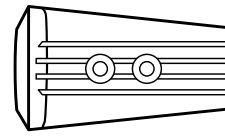
VOLVO SX-A/DPS

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

NO HARDWARE



MD-3841427



MD-3883728

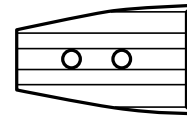
VOLVO DPH ENGINE

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

NO HARDWARE



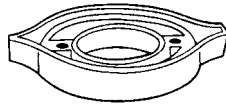
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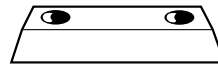
MD-3863206

VOLVO 290 EU

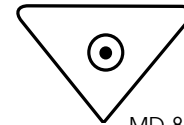
- 1 - MDV-18
- 1 - MD-852835
- 1 - MD-872793



MDV-18



MD-852835

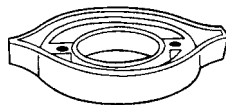


MD-872793

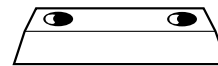


VOLVO 290 DP EU

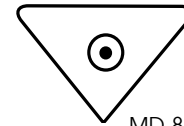
- 1 - MD-875821
- 1 - MD-852835
- 1 - MD-872793



MD-875821



MD-852835

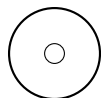


MD-872793

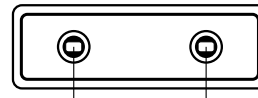
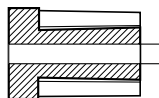


VOLVO VPIPS

- 1 - MD-3593881
- 1 - MD-40005875



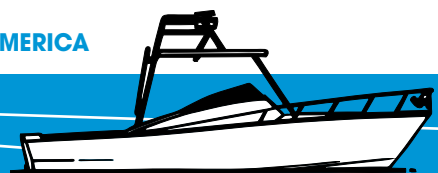
MD-3593881



← c/c →
MD-40005875



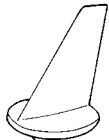
RELIANCE PRODUCTS - 100% MANUFACTURED IN NORTH AMERICA



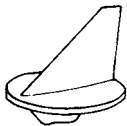
These Reliance Outdrive Anodes are direct replacement components for Mercury and Volvo engines and meet or exceed the specifications of anodes on original equipment.

PLEASURE CRAFT ANODES FOR MERCURY OUTDRIVES

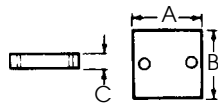
ZINC ANODES			ALUMINUM ANODES			THREAD SIZE
TYPE NUMBER	NOM. WEIGHT		TYPE NUMBER	NOM. WEIGHT		
	lbs.	(kg)		lbs.	(kg)	
MD-31640	1.05	(0.477)	AMD-31640	0.41	(0.186)	7/16-14 UNC
MD-34127	1.29	(0.586)	AMD-34127	0.50	(0.227)	7/16-14 UNC
MD-34762	0.52	(0.236)	AMD-34762	0.20	(0.091)	
MD-46399	0.82	(0.373)	AMD-46399	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)	



MD-34127



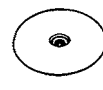
MD-31640



MD-34762



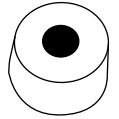
MD-46399



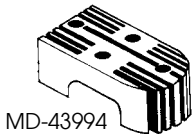
MD-76214
MD-76214-5



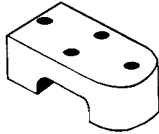
MD-822157-C2



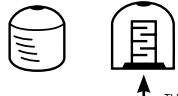
MD-823912
MD-823913



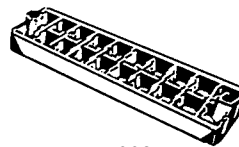
MD-43994
(821631)



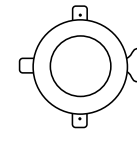
MD-821631



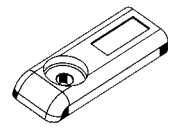
MD-C55989
↑ THREADED CORE
1/4 NC
1/2 NC



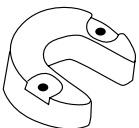
MD-43396



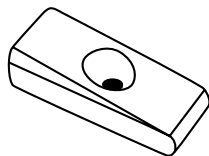
MD-806105



MD-892227A



MD-806189



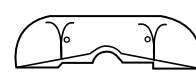
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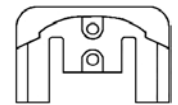
MD-89949



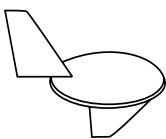
MD-818298



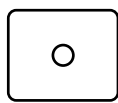
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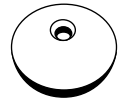
MD-821630



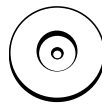
MD-98432-5



MD-875208



MD-847266 K-PLANE
ALUMINUM ONLY



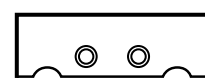
MD-848653T
K-PLANE
ALUMINUM ONLY



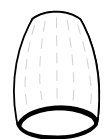
MD-806188



MD-806190



MD-880653

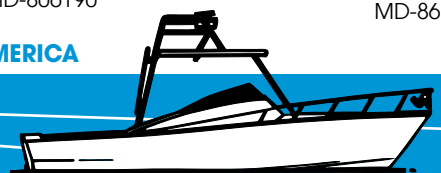


MD-865182

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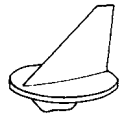


Pleasure Craft
Anodes

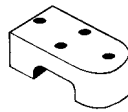


ALPHA 1 ANODE KIT

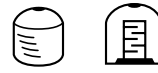
- 1 - MD-31640
- 1 - MD-821631
- 2 - MD-55989



MD-31640



MD-821631



MD-C55989

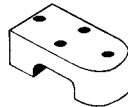
↑ THREADED CORE
1/4 NC
1/2 NC

ALPHA 1 GEN 11 ANODE KIT

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



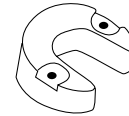
MD-76214-5



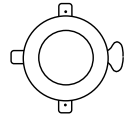
MD-821631



MD-821629



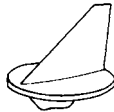
MD-806189



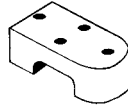
MD-806105

ALPHA 1 GEN 11 W/FIN ANODE KIT

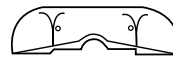
- 1 - MD-31640
- 1 - MD-821631
- 1 - MD-821629
- 2 - MD-806189
- 1 - MD-806105



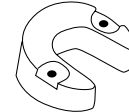
MD-31640



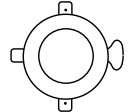
MD-821631



MD-821629



MD-806189



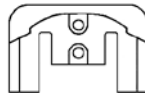
MD-806105

BRAVO 1 ANODE KIT

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



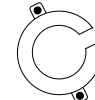
MD-76214-5



MD-821630



MD-806190



MD-806188

BRAVO 111 (2003) ADD ON

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



MD-76214-5



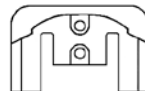
MD-865182

BRAVO 11 + 111 ANODE KIT

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



MD-76214-5



MD-821630



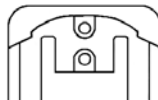
MD-806190

BRAVO 111 (2004+) ANODE KIT

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



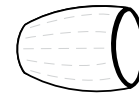
MD-76214-5



MD-821630



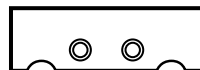
MD-806190



MD-865182

VERADO - 6

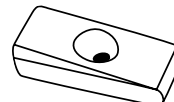
- 1 - MD-880653
- 4 - MD-892227
- 2 - MD-826134
- 1 - MD-76214-5



MD-880653



MD-892227A



MD-826134



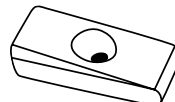
MD-76214-5

VERADO - 4

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



MD-818298



MD-826134



MD-76214-5

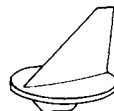


VERADO - 4 WITH FIN

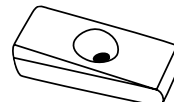
- 1 - MD-818298
- 1 - MD-31640
- 2 - MD-826134



MD-818298



MD-31640

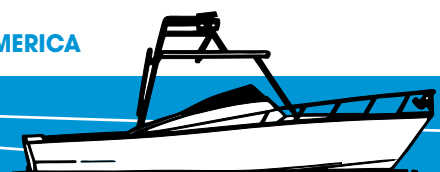


MD-826134



HARDWARE INCLUDED

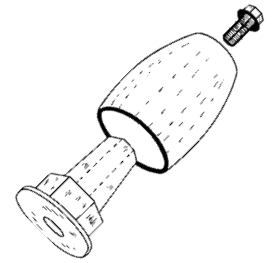
RELIANCE PRODUCTS - 100% MANUFACTURED IN NORTH AMERICA



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"

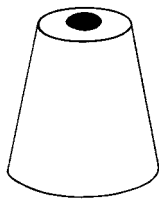
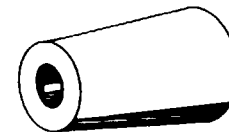
FOR SCREWS AND WASHERS, ORDER BY ZINC SIZE

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 PROPELLER NUTS
REPLACEMENT ONLY**

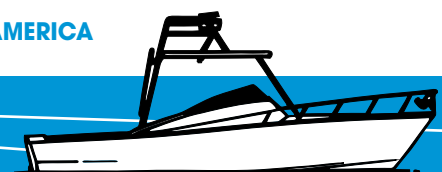
ZINC ANODES		ALUMINUM ANODES	
TYPE NUMBER	NOM. WEIGHT lbs. (kg)	TYPE NUMBER	NOM. WEIGHT lbs. (kg)
BEN-22/25 (Jeanneau Jr)	0.30 (0.136)	ABEN-22/25 (Jeanneau Jr)	0.12 (0.055)
BEN-30 (Jeanneau)	0.59 (0.268)	ABEN-30 (Jeanneau)	0.23 (0.105)
BEN-35	0.72 (0.327)	ABEN-35	0.28 (0.127)
BEN-40	1.11 (0.505)	ABEN-40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

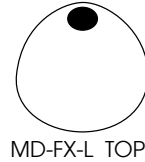
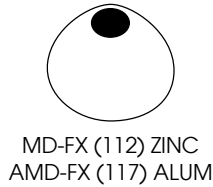
RELiance PRODUCTS - 100% MANUFACTURED IN NORTH AMERICA



Propeller nut replacement comes with washers attached.

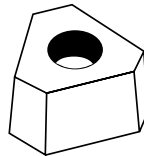
FX FLEXOFOLD PROPELLER ANODES

ZINC ANODES			ALUMINUM ANODES			FITS	NOMINAL DIMENSIONS				
TYPE NUMBER	NOM. WEIGHT		TYPE NUMBER	NOM. WEIGHT			BASE DIA.		HEIGHT		
	lbs.	(kg)		lbs.	(kg)		in	(mm)	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



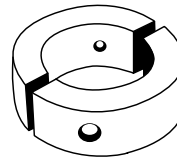
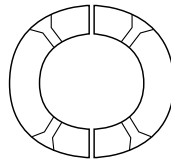
GORI PROPELLER NUTS

ZINC ANODES			ALUMINUM ANODES			NOMINAL DIMENSIONS					
TYPE NUMBER	NOM. WEIGHT		TYPE NUMBER	NOM. WEIGHT		HOLE DIAMETER		WIDTH		HEIGHT	
	lbs.	(kg)		lbs.	(kg)	in	(mm)	in	(mm)	In	(mm)
MD-GP - 14072100	0.08	(0.04)	AMD-GP - 14072100	0.04	(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)



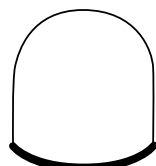
GORI PROPELLER RINGS

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

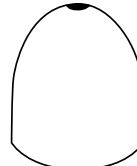


VARIFOLD PROPELLER ANODES

ZINC ANODES			ALUMINUM ANODES			NOMINAL DIMENSIONS				
TYPE NUMBER	NOM. WEIGHT		TYPE NUMBER	NOM. WEIGHT		DIAMETER		THREADED MOUNTING	HEIGHT	
	lbs.	(kg)		lbs.	(kg)	in	(mm)	HOLE	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)

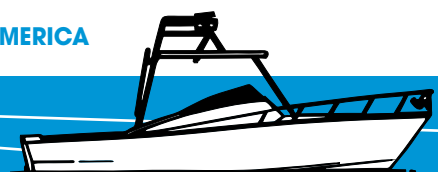


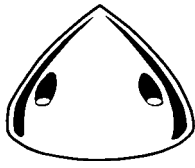
MD-VF3AN



MD-VF4AN

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ZINC ANODES

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

MAX PROP

63M

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

70M

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

83M

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

MAX PROP UNIVERSAL WITH INSERT

63M4

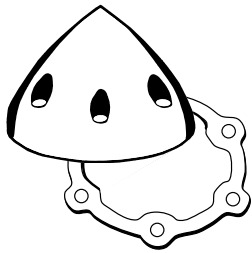
- "Universal" zinc anode for 63mm Max Prop propeller hubs that use **Large Screws** (5mm diameter) on either 46mm (1-13/16" or 43mm (1-5/8") centres.
- Required for all model years 2006 and later.
- Fits most other models except 2003, 2004, and 2005 that use **Small Screw Set**.
- Weight: 0.6 lbs.
-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

70M4

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

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)



ZINC ANODES

TYPE NUMBER	NOM. WEIGHT	
	lbs.	(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

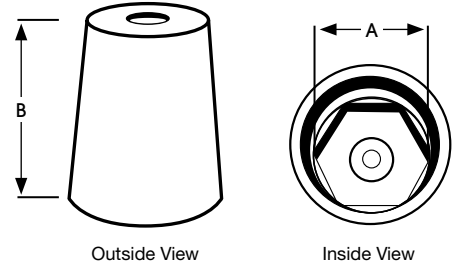
TYPE NUMBER	NOM. WEIGHT	
	lbs.	(kg)
AMax Prop 63m Universal	0.25	0.114
AMax Prop 70m Universal	0.34	0.155
AMax Prop 83m Universal	0.73	0.332

RELiance PRODUCTS - 100% MANUFACTURED IN NORTH AMERICA



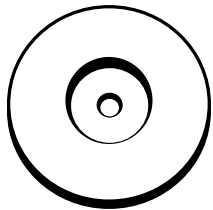
**RADICE/AZIMUT PROPELLER ZINC ANODE
(ANODE ONLY)**

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

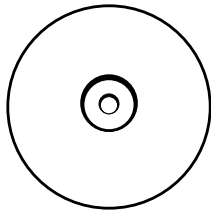


RADICE/AZIMUT ZINC ANODE

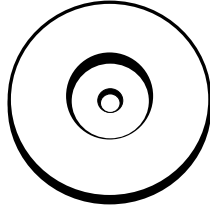
ZINC ANODES		ALUMINUM ANODES			NOMINAL DIMENSIONS						
TYPE NUMBER	NOM. WEIGHT		TYPE NUMBER	NOM. WEIGHT		DIAMETER		THICKNESS		HOLE DIA	
	lbs.	(kg)		lbs.	(kg)	in	(mm)	in	(mm)	in	(mm)
125MM TRANSOM	5.90	(2.7)	125MM TRANSOM	2.36	(1.07)	5	(125)	1-1/2	(38)	1/2	(13)
135MM TRANSOM	10.20	(4.6)	135MM TRANSOM	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)



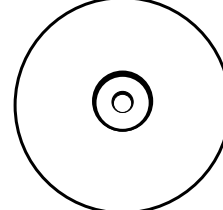
RADICE/AZIMUT
125MM TRANSOM



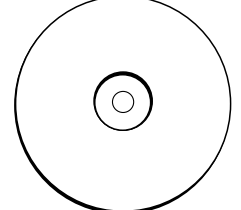
RADICE/AZIMUT
135MM TRANSOM



RADICE/AZIMUT
152MM TRANSOM



RADICE/AZIMUT 125MM
STREAMLINED HULL

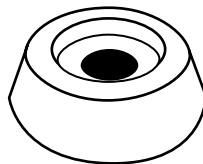


RADICE/AZIMUT 140MM
STREAMLINED HULL

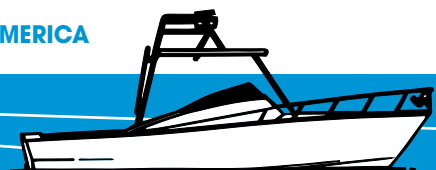


LEWMAR THRUSTER ANODES

ZINC ANODES		ZINC ANODES			MODEL TYPE	NOMINAL DIMENSIONS						
TYPE NUMBER	NOM. WEIGHT		TYPE NUMBER	NOM. WEIGHT		DIAMETER		THICKNESS		HOLE DIA		
	lbs.	(kg)		lbs.	(kg)	in	(mm)	in	(mm)	in	(mm)	
MD-589150	0.22	(0.10)	AMD-589150	0.09	(0.04)	140TT	1.50	(38)	0.50	(13)	0.39	(10)
MD-589350	0.27	(0.12)	AMD-589350	0.11	(0.05)	185TT	1.73	(44)	0.59	(15)	0.47	(12)
MD-589550	0.52	(0.24)	AMD-589550	0.20	(0.09)	250TT / 300TT	2.36	(60)	0.67	(17)	0.71	(18)

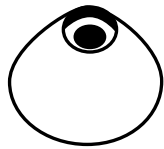


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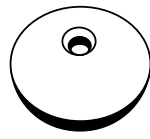


SIDE POWER (SLEIPNER) BOW THRUSTERS

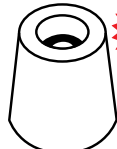
ZINC ANODES			ALUMINUM ANODES			NOMINAL DIMENSIONS			
TYPE NUMBER	NOM. WEIGHT		TYPE NUMBER	NOM. WEIGHT		A DIAMETER		B HEIGHT	
	lbs.	(kg)		lbs.	(kg)	in	(mm)	in	(mm)
MD-SM-31180	0.13	(0.059)	AMD-SM-31180	0.05	(0.023)	15/16	(24)	1/2	(13)
MD-SM-71190 (MD-SM-51180)	0.25	(0.114)	AMD-SM-71190 (AMD-SM-51180)	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-101180	0.38	(0.172)	N/A	-	-	1.65	(42)	1.38	(35)
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)



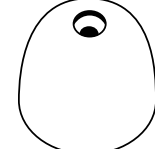
MD-SM-61180



MD-SM-101180



MD-SM-201180



MD-SM-501180



KEY POWER BOW THRUSTER

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



THREADED CORE
1/2"



THREADED CORE
7/16"



THREADED CORE
1/4"

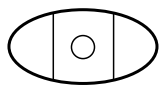


PLEASE SPECIFY THREAD SIZE WHEN ORDERING

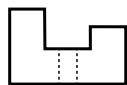
VETUS BOW THRUSTERS

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

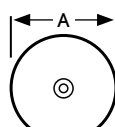
MDBP-129



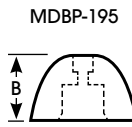
BOTTOM



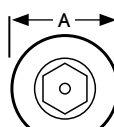
SIDE



TOP



SIDE

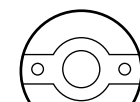


INSIDE

MDBP-1185

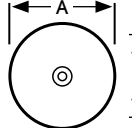


TOP

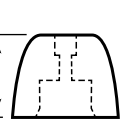


BOTTOM

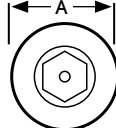
MDBP-1210



TOP

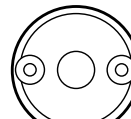


SIDE

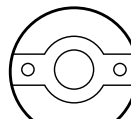


INSIDE

MDBP-1126

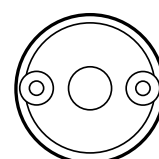


TOP

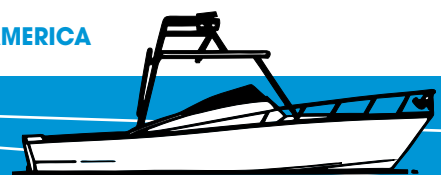


BOTTOM

MDBP-1221

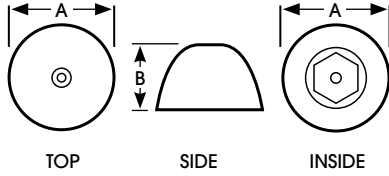


RELIANCE PRODUCTS - 100% MANUFACTURED IN NORTH AMERICA

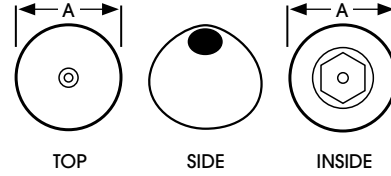


QUICK BTQ / BTR THRUSTERS

ZINC ANODES			ALUMINUM ANODES			NOMINAL DIMENSIONS			
TYPE NUMBER	NOM. WEIGHT		TYPE NUMBER	NOM. WEIGHT		A DIAMETER		B HEIGHT	
	lbs.	(kg)		lbs.	(kg)	in	(mm)	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 185MM

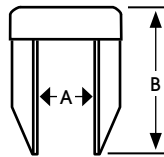
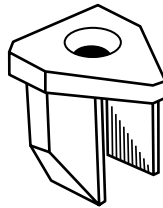


BTQ/BTR 250MM
BTQ/BTR 300MM

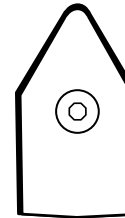
Spurs Line Cutter Anodes

SPURS LINE CUTTER ANODES

ZINC ANODES			ALUMINUM ANODES			NOMINAL DIMENSIONS			
TYPE NUMBER	NOM. WEIGHT		TYPE NUMBER	NOM. WEIGHT		A INSIDE WIDTH		B OVERALL HEIGHT	
	lbs.	(kg)		lbs.	(kg)	in	(mm)	in	(mm)
SIZE A	.05	(0.02)	SIZE A	.03	(0.02)	0.37	(9)	0.68	(18)
SIZE B	.05	(0.02)	SIZE B	.03	(0.02)	0.40	(10)	0.68	(18)
SIZE C-D-E	.10	(0.05)	SIZE C-D-E	.05	(0.02)	0.52	(13)	1.25	(32)
SIZE F-F1	.20	(0.09)	SIZE F-F1	.08	(0.04)				



SIZE A, B & C, D, E

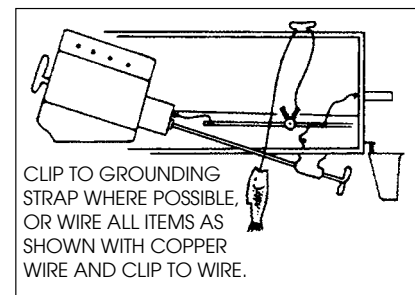
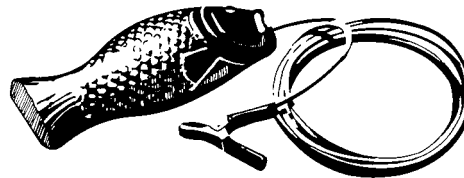
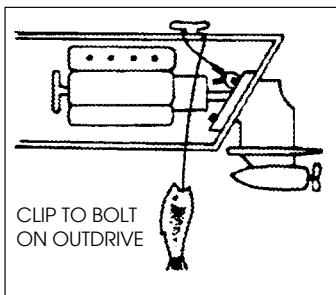


SIZE F-F1

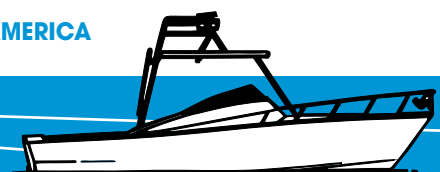
Grouper Anodes

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

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

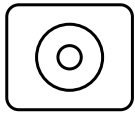


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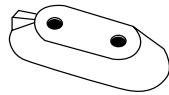


PLEASURE CRAFT ANODES FOR HONDA

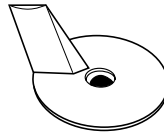
ZINC ANODES			ALUMINUM ANODES			CROSS REFERENCE / SAME AS
TYPE NUMBER	NOM. WEIGHT		TYPE NUMBER	NOM. WEIGHT		
	lbs.	(kg)		lbs.	(kg)	
MD-41106-935-812	0.20	0.091	AMD-41106-935-812	0.08	0.036	6E0-45251-11
MD-41106-ZW9-000	0.10	0.050	AMD-41106-ZW9-000	0.05	0.020	
MD-41107-ZV5-000	0.48	0.218	AMD-41107-ZV5-000	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	5031705 / 55321-87J00



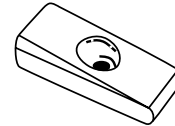
MD-41106-ZW9-000



MD-41106-935-812



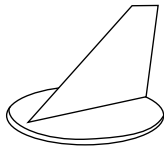
MD-41107-ZV5-000



MD-41109-ZW1-003
MD-41109-ZW1-B00



MD-12155-ZV5-000
MD-12155-ZV4-A00



MD-41107-ZW1-003



MD-06411-ZV5-000

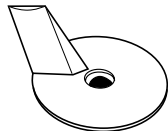


MD-06411-ZW1-000

AVAILABLE IN ZINC & ALUMINUM

HBF4050 ANODE KIT

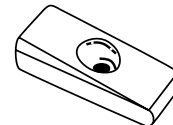
- 1 - MD-41107-ZV5-000
- 1 - MD-06411-ZV5-000
- 2 - MD-41109-ZW1-003



MD-41107-ZV5-000



MD-06411-ZV5-000

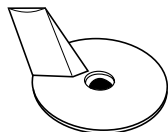


MD-41109-ZW1-003



HBF35225 ANODE KIT

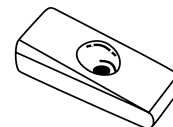
- 1 - MD-41107-ZV5-000
- 1 - MD-06411-ZV5-000
- 2 - MD-41109-ZW1-003
- 2 - MD-55321-87J00



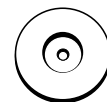
MD-41107-ZV5-000



MD-06411-ZV5-000



MD-41109-ZW1-003



MD-12155-ZX5-000



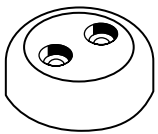
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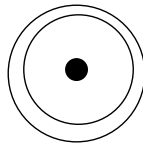
PLEASURE CRAFT ANODES FOR HAMILTON JET

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

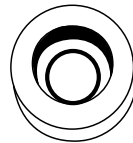
NEW



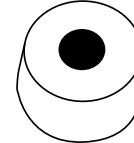
MD-HJ-103862-14
The DD6X6, DD6X6 Heavy, DD6X6 X-Heavy & 103862-15 are a popular low cost alternative to the HJ-103862



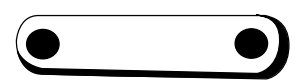
MD-HJ-102185



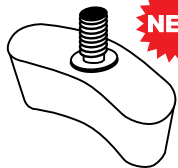
MD-HJ-105447



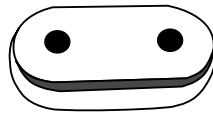
MD-HJ-112657



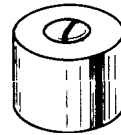
MD-HJ-104634, HJ103359



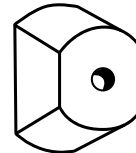
MD-HJ-212094



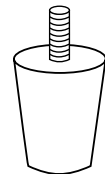
MD-HJ-111059



MD-HJ-108582



MD-HJ-107890



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

NEW

Anodes for MJP Ultrajet Marine Jet Drives

MJP ULTRAJET MARINE JET DRIVE ANODES

		MD-MJP305-1 JET CONE ANODE (8700-026-00S)							
	PART#	HEIGHT		TOP DIA		BASE DIA	WEIGHT		
		in	(mm)	in	(mm)	in	(mm)	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		THICKNESS	HOLE DIA	WEIGHT			
		in	(mm)	in	(mm)	in	(mm)	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	WIDTH		HOLE DIAMETER	WEIGHT			
		in	(mm)	in	(mm)	in	(mm)	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

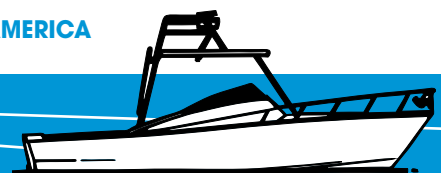
		MD-MJP305-4 REVERSE DEFLECTOR (8978-924-00G) same as MD-HJ103359									
	PART#	A-LENGTH	B-WIDTH	C-THICKNESS	HOLE DISTANCE		WEIGHT				
		in	(mm)	in	(mm)	in	(mm)	LBS	(KGS)		
ZINC	MD-MJP305-4	3 1/8	(80)	7/8	(22)	1.00	(25)	2 1/4	(57)	0.60	(0.27)
ALUM	AMD-MJP305-4	3 1/8	(80)	7/8	(22)	1.00	(25)	2 1/4	(57)	0.22	(0.10)

NEW

RELIANCE PRODUCTS - 100% MANUFACTURED IN NORTH AMERICA

reliance

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)



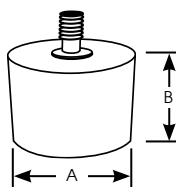
ARNESON

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

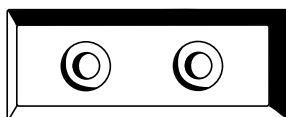


GALVION ZINC ANODES

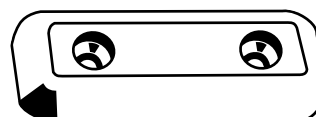
TYPE NUMBER	NOM. WEIGHT		A-DIAMETER		B-LENGTH		INT. THREAD	BRASS PLUG NPT.	
	lbs.	(kgs)	IN	(MM)	IN	(MM)		IN	(MM)
MD-ZDM-625	0.05	(0.02)	0.625	(17)	0.75	(19)	12-28	0.50	(13)
MD-ZDM-825	0.09	(0.04)	0.82	(21)	0.75	(19)	12-28	0.75	(19)
MD-ZDM-1050	0.16	(0.48)	0.82	(21)	0.75	(19)	12-28	1.0	(25)

SEA STRAINER

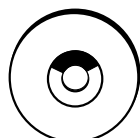
ZINC ANODES			ALUMINUM ANODES			
TYPE NUMBER	NOM. WEIGHT		TYPE NUMBER	NOM. WEIGHT		
	lbs.	(kg)		lbs.	(kg)	
SZ1	0.55	(0.250)	ASZ1	0.24	(0.109)	1 1/2 (38) x 3 7/8 (98) x 1/2 (13)
DOKA (656934)	0.33	(0.150)	ADOKA (656934)	0.14	(0.064)	1 1/4 (32) x 3 3/8 (86) x 7/16 (11)



SZ1



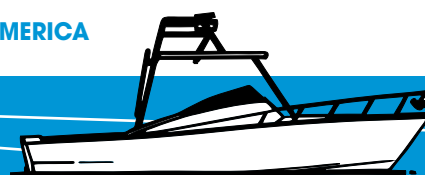
DOKA (656934)



Frigoboat

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 $-.6v.(-1.050vZn \text{ minus } -.450v \text{ Naval Brass})$ 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 $-0.2V$ ($200mv$) 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. $(25 \text{ lbs} \times 353 \text{ amp hrs} / 2 \text{ amps} / 24\text{hrs})$ 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 Requirments

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

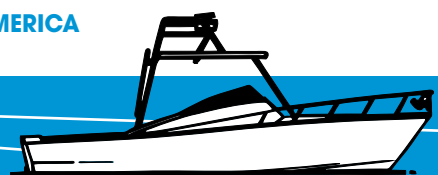
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Pleasure Craft
Anodes



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.

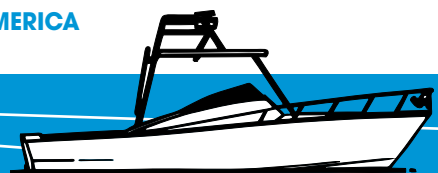
MISC. CONSIDERATIONS

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.

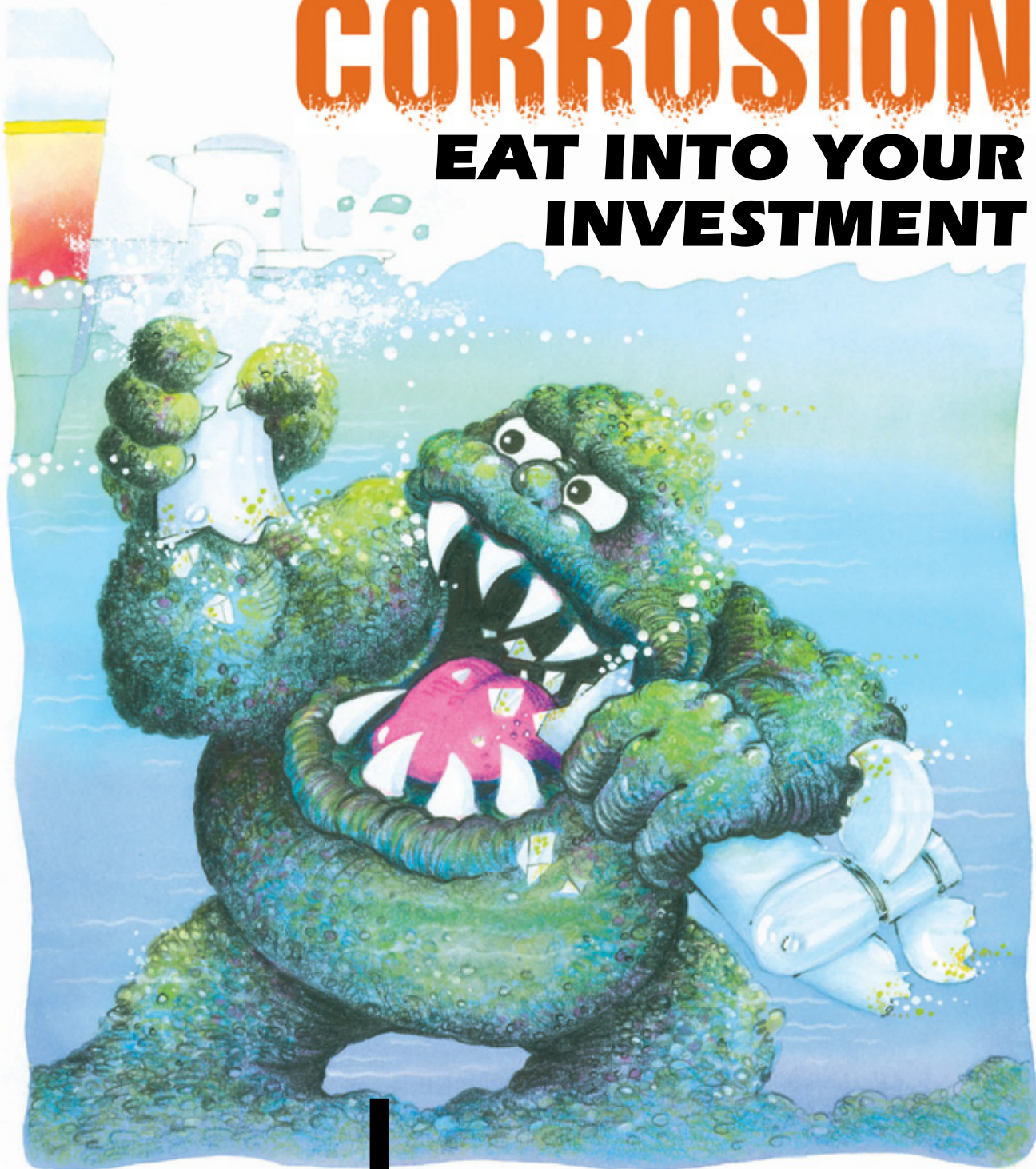


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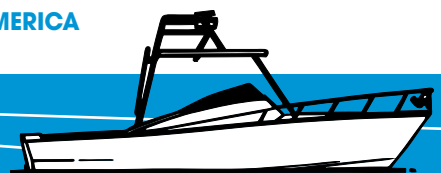


DON'T LET
CORROSION
EAT INTO YOUR
INVESTMENT



DEMAND **reliance MIL SPEC ANODES**

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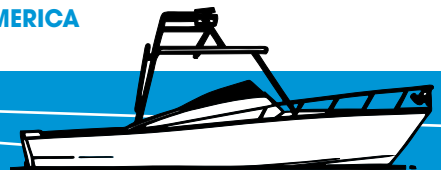


NOTES

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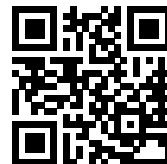


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