Martyr

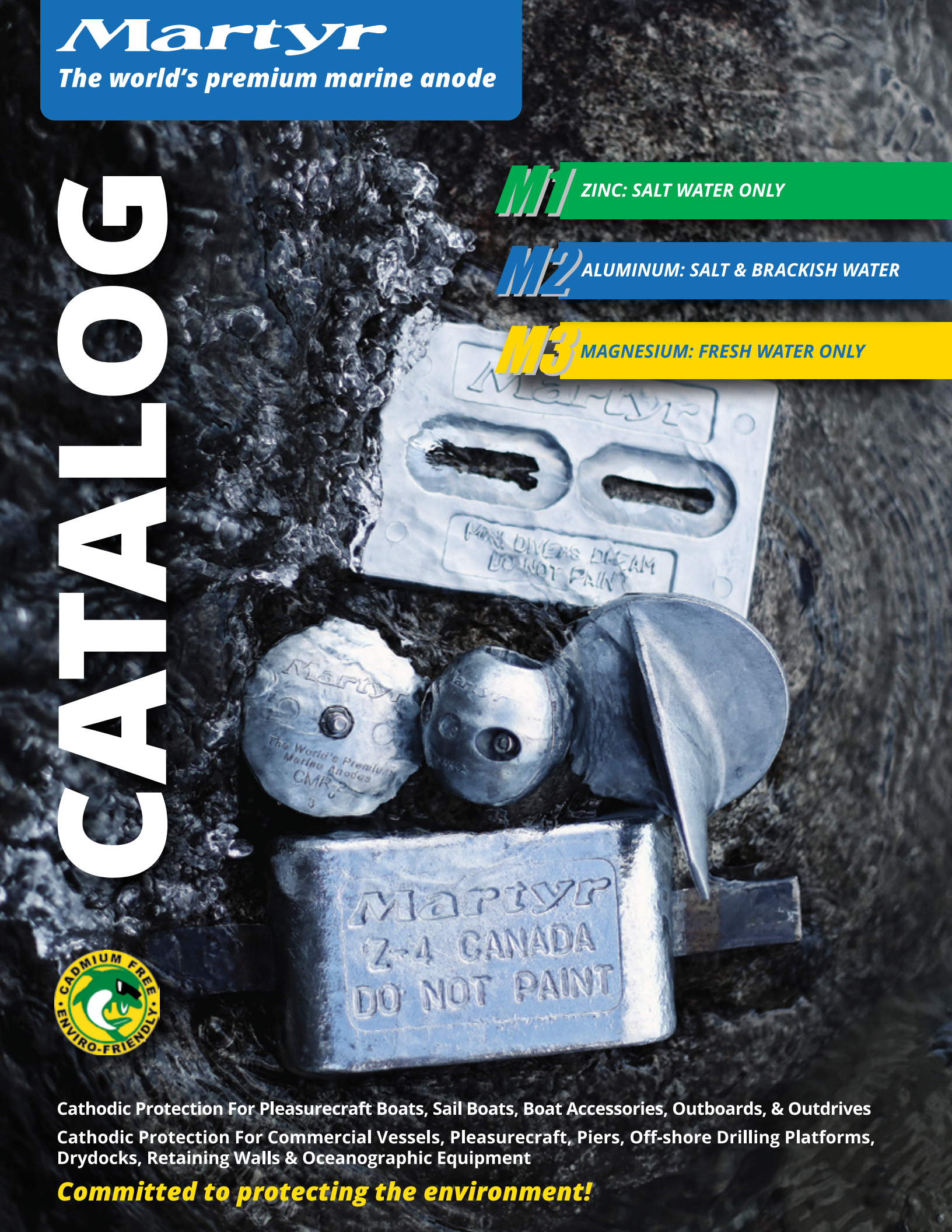
The world's premium marine anode

CATALOG

M1 ***ZINC: SALT WATER ONLY***

M2 ***ALUMINUM: SALT & BRACKISH WATER***

M3 ***MAGNESIUM: FRESH WATER ONLY***



CADMIUM FREE · ENVIRO-FRIENDLY ·

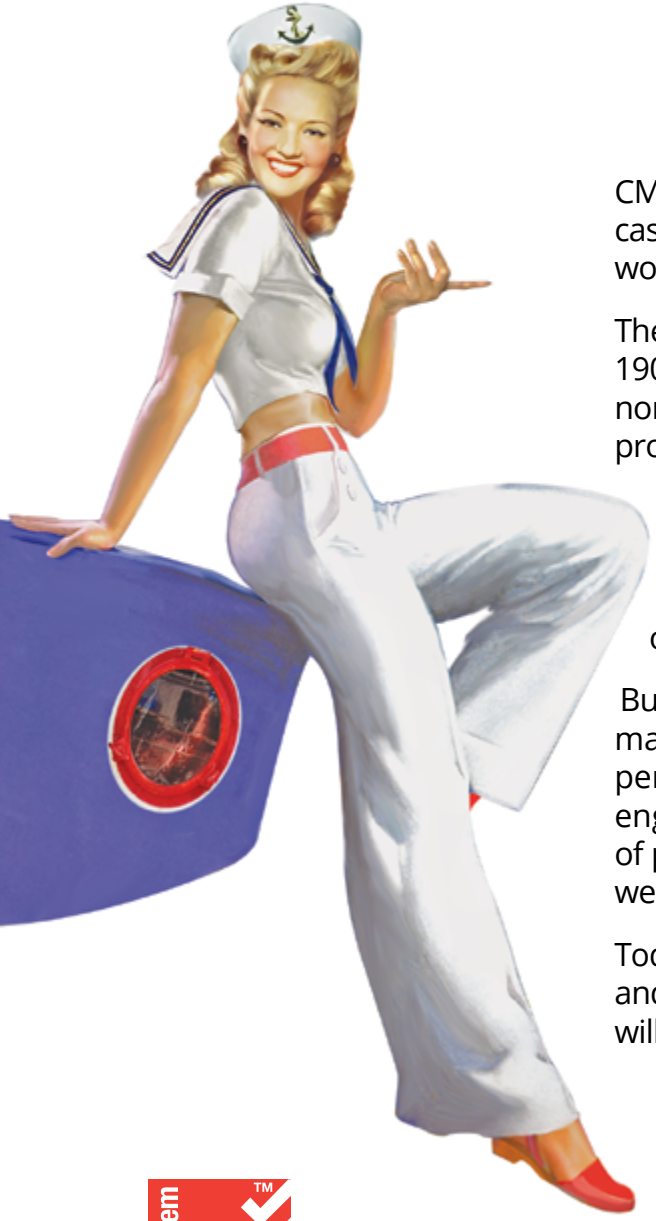
Cathodic Protection For Pleasurecraft Boats, Sail Boats, Boat Accessories, Outboards, & Outdrives

Cathodic Protection For Commercial Vessels, Pleasurecraft, Piers, Off-shore Drilling Platforms, Drydocks, Retaining Walls & Oceanographic Equipment

Committed to protecting the environment!

Martyr

Committed to protecting the environment!



ABOUT US

CMP is the world's leading manufacturer and supplier of die cast zinc, aluminum, and magnesium anodes, which are sold worldwide under the Martyr brand name.

The company first began foundry operations during the early 1900's servicing the plumbing and forestry industries. Their non-ferrous capabilities allowed the company to expand its product offering. This included the manufacture of gravity cast zinc and aluminum anodes for the commercial marine industry. The innovative development of new alloys and casting techniques enabled the company to gain an international reputation of superior quality for its Martyr brand of sacrificial marine anodes.

Building on the success achieved in the commercial marine market the company was able to offer the utility of their performance enhanced alloys to the worlds leading marine engine builders. Here the company was able to use the process of pressure diecasting to produce more intricate castings that were needed by the fast growing pleasurecraft industry.

Today CMP is in a state of continuous improvement. Our people and our commitment to quality is the foundation in which we will perpetuate our growth and prosperity.

Thank you for your support!

Team CMP

Certified System ™

ISO 9001

QMI - SAI Global
0044183

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OUR TEAM IS COMPOSED OF CONSCIENTIOUS INDIVIDUALS WHO ARE:

DEDICATED TO TIMELY DELIVERY OF DEFECT FREE PRODUCTS

—

COMMITTED TO CONTINUOUS PROCESS IMPROVEMENT

—

DILIGENT IN THEIR EFFORTS TO PROTECT THE ENVIRONMENT

HOW TO USE THIS CATALOG

We have made it easy to help you find the right anode for the job! Throughout this product catalog you will notice three distinct colors each representing a specific alloy type.

Each alloy we offer is specially formulated to work the best when used in the right water environment.

To order, simply find the right engine or anode type then look for a green, blue or yellow flag. Add either the letters Z, A, or M to the product code.

For example:

CM31640**Z = ZINC** alloy • CM31640**A = ALUMINUM** alloy • CM31640**M = MAGNESIUM** alloy

ZINC — For use in salt water
Not recommended for use in fresh water
Alloy is manufactured to meet or exceed US Military Specification (MIL-DTL-18001L)

ALUMINUM — For use in salt and brackish water
Performs better, protects longer than Zinc
Alloy is manufactured to meet or exceed US Military Specification (MIL-DTL-24779C(SH))

MAGNESIUM — ONLY for use in fresh water
Not recommended for use in salt or brackish water
The only alloy proven to protect your boat in fresh water

Don't be fooled by claims that only one alloy will protect in all water environments.
Only MARTYR Anodes offers you the choice of the right protection for any application!

M1 +Z **Zinc Alloy US Mil-DTL-18001L**

M2 +A **Aluminum Alloy US Mil-DTL-24779C(SH)**

M3 +M **Magnesium Alloy AZ91D**

Drawing Legends:

L	W	H	D	OD	ID	T	THD
Length	Width	Height	Distance	Outside Diameter	Inside Diameter	Thickness	Thread

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WHY USE MARTYR™ ANODES?

Anodes are inexpensive, which means it is important to protect your boat with a quality product. Martyr™ Anodes are pressure die-cast and manufactured to strict quality standards through an ISO 9001 Quality Management System. Every anode is UPC barcoded. In addition, each alloy is guaranteed to be manufactured to the latest US Military Alloy Specification and is chemically tested regularly in our in-house labs to ensure consistency.

Poorly manufactured anodes may con-tain high levels of impurities such as iron, which will leave you un-protected. Martyr™ Anodes manu-factures all 3 alloys for the 3 main water environments. Not all anodes are created equal so to be sure buy genuine Martyr™ Anodes.

CORROSION WILL OCCUR IN ALL TYPES OF WATER WITH DRAMATIC EFFECT

Metals have different electroche-mical potentials when in contact with one another and form Gal-vanic cells. The metal with a lower potential in the galvanic cell will be anodic and will corrode. The same effect can occur in areas of different electrochemical potential in a single piece of metal such as a steel plate. Any craft moored and operating in fresh, salt or brackish water is at risk from corrosion and the effects can be costly.

Corrosion on Steel & Aluminum vessels can be identified as either areas of localized pitting to the hull plate, rudders, bilge keels etc. or less obviously in the form of general wastage of the hull plating often occurring below the paint coating. Pitting can lead to the complete penetration of the hull below the waterline. General wastage of the steel can be just as critical, weakening the hull and necessitating expensive re-plating. Corrosion on Aluminum vessels is also generally in the form of localized pitting to the hull plate, rudders, bilge keels and particularly in way of weld seams. Pitting can lead to the complete penetration of the hull below the waterline necessitating expensive re-plating.

On wood and GRP vessels the areas of concern are principally the stern gear i.e. The propellers, shafts, shaft brackets, stern tubes and rudders which are expensive to replace and vital to the vessel, the failure of a propeller or rud-der could have disastrous conse-quences. The effects of corrosion can vary from pitting of propellers and shafts to the decomposition of the alloy of propeller. The failure of something as small and inexpensive as a split pin can result in the loss of the propeller.

Stray current leakage is quite often cited as the cause of corrosion on all types of vessel however more often than not the problem can be traced to a galvanic action. Stray current leakage is the action of electrical current from an external power source such as a battery or shore power supply which because of some electrical system fault on board the vessel passes out through the hull or a fitting in the hull and flows through the water causing "Electrolytic" corrosion. Stray current leakage is usually a result of damage or wear to the wiring system or poor installation of wiring or electrical equipment.

WHAT CAN BE DONE TO PREVENT CORROSION?

The selection of materials is of prime importance in the construction of craft. Generally naval architects and boat builders ensure that they select metals which are as far as possible com-patible to each other and when this is not possible metals must be isolated from one another. There will always be occasions when fittings or steel-work require replacement or repair and it is important that when this is done attention is paid to the same criteria. In particular ensure that fastenings and split pins are compatible and of the highest quality.

The paint system on any boat is an important first barrier against corrosion. Seek advice from the paint manufacturers for their recommendations on the most appropriate coating system and follow the application instructions completely. Ensure that a good anti-corrosive primer is applied if anti-fouling is to be used. When using a copper based anti-fouling none of the paint must be applied directly to bare metal surfaces.

Vegetable oil based paints, although far less widely available than in the past, should not be used with cathodic protection systems as the paint tends to saponify.

The correct installation of electrics on a boat will reduce the possibility of stray current leakage and the following actions are recommended.

• Use only high grade insulated wiring of suitable capacity. Un-dersized wires will cause resistance and consequent voltage drop.

• Clip or support all wires at suitable intervals to prevent fatigue and eventual fracture.

• Use only corrosion resistant ter-minals and connectors and make sure that all are clean and tight.

• Attach only the main battery leads to battery terminals.

• Fit an isolation switch in the battery circuit.

• Ensure that all battery circuits are correctly fused.

• Keep all wiring, connections and junction boxes above the bilge area and other areas likely to become wet.

Make sure that when fitting additional equipment the work is carried out in accordance with the manufacturer's instructions. The polarity of connections should be correct and each circuit must be correctly fused.

Electrical and electronic work is best carried out by a qualified marine electrician.

Ongoing maintenance on your boat is essential. Metal work, paint coatings and electrical installations all require regular inspection. In particular you should inspect the wind and water line area if owning a steel vessel. This area is particularly vulnerable because it is often prone to mechanical damage but derives no protection from an anode system being above the water line.

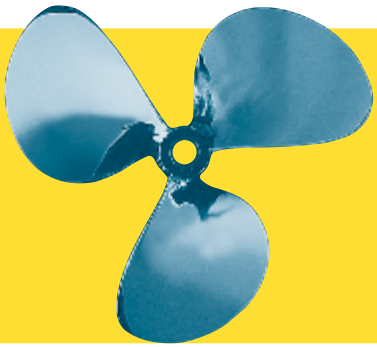
WHAT IS CATHODIC PROTECTION?

Cathodic protection is an electrochemical process which halts the natural reaction (corrosion) of metals in a particular environment by superimposing an electrochemical cell more powerful than the corrosion cell. Sacrificial Anodes are fitted or bonded to the metal to be protected which in turn as it has a greater electrical potential than the anode material becomes cathodic and causes the anode to waste instead of itself. In a correctly installed Martyr™ Cathodic Protection System the only corrosion occurs to the sacrificial anode which is replaceable. The number and size of anodes is determined by the type of material and the surface area being protected.

The term bonding refers to the connection of the anode to a remote metal component such as the propeller shaft of rudder stock and it should be remembered that the integrity of the bonding is critical to the effectiveness of the cathodic protection system.

Several factors determine the type of cathodic protection system fitted. Firstly the environment in which the vessel is operating, secondly the size and type of construction and finally the length of time that the vessel is likely to be afloat before the next maintenance slipping.

FIT THE CORRECT ANODE MATERIAL FOR THE WATERS YOUR VESSEL IS OPERATING IN



As a general rule owners should fit the anodes suitable for the environment they most regularly berth in and the following table provides a useful guide:

Salt Water: Fit Zinc (Martyr™ I) or Aluminum Anodes

Brackish Water: Fit Aluminum Anodes (Martyr™ II)

Fresh Water: Fit Magnesium Anode (Martyr™ III)

Some vessels will from time to time move between salt and fresh water, others are berthed within marinas and behind tidal barriers where the water is enclosed and likely to be brackish or even virtually fresh. Owners must be aware of the effects that this may have on their boats and fit the correct cathodic protection system to avoid corrosion. Not all anodes are suitable for every environment, for example the surface of a zinc or aluminum anode will if left in fresh water for some time become covered with an off white crust of oxide which effectively seals the anode and stops it working even when returned to salt water.

Zinc Anodes suffer a similar problem even in brackish conditions whereas Aluminum will continue to operate effectively in river estuaries and other areas of brackish water indefinitely. The consequences of this passivity of the anode are that the next most anodic item within the anode bonding system will start to sacrifice itself which could of course be very serious. It is therefore very important to check Zinc and Aluminum anodes after any trips into fresh water and if necessary clean off or change the anodes. Should a vessel move into fresh water for more than two weeks Martyr™ recommends that an alternative anode system is used suitable for fresh water situations.

Magnesium Anodes on the other hand have a much higher driving voltage than zinc or aluminum making them highly suitable for use in fresh water, they will however become very active in salt water where they will probably only last a matter of months. Protected surfaces can build up a layer of off white calcareous deposit which will be difficult to remove. Magnesium anodes are not designed for prolonged use in sea water and if you are taking your boat into a salt water location for more than seven days (Fourteen days in any one year) you should consider changing the anodes.

■ Reprinted courtesy of MG Duff International

Martyr

Anodes are inexpensive, which means — it is important to protect your boat with a quality product.

Martyr™ anodes are pressure diecast and and manufactured to strict quality standards through an ISO 9001 Quality Management System. In addition, each alloy is guaranteed to be manufactured to the latest US Military Alloy Specification and is chemically tested regularly in our in-house labs to ensure consistency. Copies of Material Certificate of Compliance are available upon request.

Poorly manufactured anodes may contain high levels of impurities such as iron, which will leave your investment unprotected. Martyr™ Anodes provide low cost cathodic protection of ocean-going vessels, structures and equipment constructed of iron, steel, aluminum, magnesium, and other metals. Martyr™ is the only manufacturer that offers all 3 alloys for all water environments for pleasurecraft and commercial vessels.

M2 ALUMINUM ALLOY ANODES:

- *Perform at least 5% better than traditional zinc anodes in saltwater;*
- *Protect 50% longer than traditional zinc anodes;*
- *Are environmentally friendly — contain 0% Cadmium, a toxic material found in traditional zinc anodes;*
- *Weigh 50% less than traditional zinc anodes;*
- *Meet the US Military Specification Mil-DTL-24779C(SH);*
- *Are the only anodes proven to be effective in Salt & Brackish water;*
- *Results in considerable cost savings compared with traditional zinc anodes on commercial products.*

WHY CADMIUM-FREE ANODES:

1. EPA recommended Cathodic protection for sacrificial anode systems — choose the least toxic material that is practical. In order of preference: magnesium, aluminum, then zinc. ■ *ECM Maritime Services*

2. The MTABC Board recommended that zinc anodes be prohibited now that aluminum anodes are available for virtually every application. It is the position of the MTABC Board that this legislation will truly and effectively reduce copper and zinc levels entering the Bay. The availability of copper-free paints and aluminum anodes has been satisfactorily explored. ■ *Marine Trades Association of Baltimore Country*

3. Connecticut Department of Environmental Protection recommended Zinc Replacement: Potential Environmental Impacts — Sacrificial zinc anodes fight corrosion in salt water by deterring corrosion of metal hull and engine parts. Elevated levels of zinc in marina sediments have been found to be associated with boat operation and maintenance. Zinc, in high concentrations, can be toxic to marine life, and can be potentially toxic to humans who eat contaminated shellfish or fish. ■ *Connecticut Clean Marina Guidebook 2007, Pg. 26*

4. BoatTECH advised in April 2012: In recent years cadmium in zinc has become an environmental concern, leading to a movement in the direction of aluminum anodes. Such anodes are effective even for protecting aluminum components — lower end cases, for example —because the aluminum used in the anode is a more anodic alloy. Aluminum alloy anodes are almost certainly to become more common. It has not happened already only because the cost of aluminum anodes has been higher than zinc without any discernable benefit to the boatowner. Today aluminum is actually cheaper than zinc. In addition, aluminum anodes tend to last longer, they work better than zinc in brackish water (and maybe in salt water as well) and they appear to be better for the environment. When making the switch from zinc to aluminum, ALL of your anodes must be aluminum. This can be a problem in some locales as many local marine suppliers still do not stock a wide selection of aluminum anodes. That will eventually change. In fresh water, magnesium anodes protect underwater metals better, particularly underwater aluminum. However, magnesium is a good choice for freshwater only. If any of your boating is also in brackish or salt water, fit aluminum anodes. ■ *http://www.boatus.com/boattech/casey/sacrificial-zincs.asp by Don Casey*

Martyr

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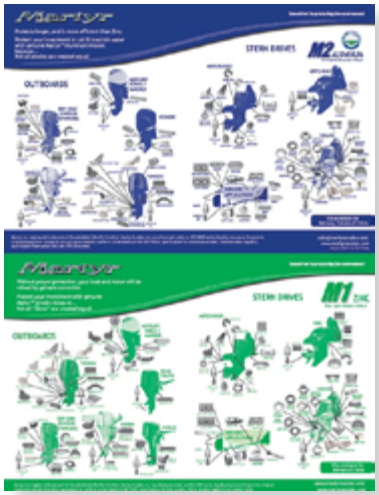
MARKETING TOOLS

Please order via Martyranodes.com or email with PID#.

PID	Description
CM3FOLBROE	*Martyr "Cadmium free" tri-fold brochure*
CM3ALLCARD	*Martyr "3 alloy" card*
CMALUFACFLY	*Martyr "Why aluminum" flyer*
CMANOLOCPOS	*Martyr "Anode location" poster*
CMMOLPOS	*Martyr "Molly girl" poster*
CMFREWATPOS	*Martyr "Freshwater anodes" poster*
CMMARWINSTI	*Martyr removable window sticker*



CMANOLOCPOS

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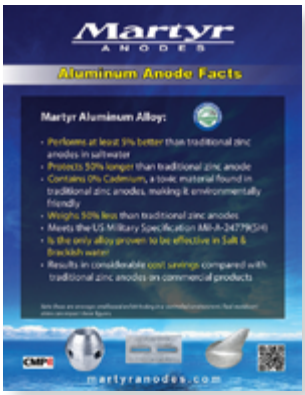

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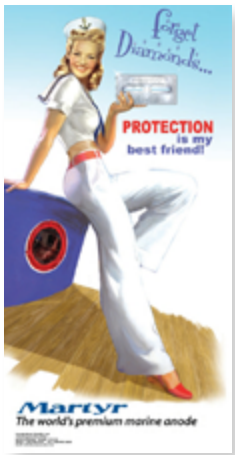

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PERFORMANCE - MARTYR I & MARTYR II ANODES:

SPECIFICATIONS	*MARTYR I ZINC ANODES*	*MARTYR II ALUMINUM ANODES*
CAPACITY, ampere-hours/lb (kg)	355(782)	1225(2695)
EFFICIENCY (test)	95%	94%
CONSUMPTION, lb(kg)/ampere-year	24.68(11.2)	7.15(3.25)
POTENTIAL (reference Cu/Cu SO4)	-1050mV	-1100mV

COMPOSITION - MARTYR I & MARTYR II ANODES:

COMPOSITION	*U.S. Military Specification* MIL-DTL-18001L Martyr I Zinc Alloy*	*U.S. Military Specification* MIL-DTL-24779C(SH) Martyr II Aluminum Alloy*
Cadmium	0.025% - 0.07%	-
Copper	0.005% Max.	0.005% Max.
Iron	0.005% Max.	0.08% Max.
Indium	-	0.014% - 0.020%
Lead	0.006% Max.	-
Silicon	-	0.08% - 0.20%
Aluminum	0.1% - 0.5%	Remainder
Zinc**	Remainder	4.0% - 6.5%

* Latest Revision ** Martyr anodes have a zinc purity 99.995%

COMPARISON BETWEEN MARTYR I & MARTYR II ANODES:

MARTYR I (ZINC ANODES):	*MARTYR II (ALUMINUM ANODES):*
355 Ampere hours per pound / 782 Ampere hours per kilogram: this means a Zinc anode will give one amp for 355 hours for every pound of Zinc	1225 Ampere hours per pound / 2695 Ampere hours per kilogram: this means an Aluminum anode will give one amp for 1225 hours for every pound of Aluminum
Take a typical CMZ03BZ (weight=4.68 kg) — total ampere hours 3655	Take a typical CMZ03BA (weight = 2.7 kg) — total ampere hours 7277
Assuming the anode performs at 0.5 amp, this anode will last for 7310 hours, which is 305 days / 10 months	Assuming the anode performs at 0.5 amp, this anode will last for 14554 hours, which is 606 days / 20 months

THESE ARE JUST SOME OF THE NEW PRODUCTS IN THIS CATALOG*:

AUTOPROP™ PROPELLER ANODES

BRP™ PROPELLER ANODES

FLEXOFOLD™ ANODES

HONDA™ ANODE KITS

HULL ANODES

MERCURY™ ANODES

RP SERIES RUDDER ANODES

SEASALL™ ANODES

SHAFRAN™ ANODES

SUZUKI™ ANODES

VOLVO™ ANODES

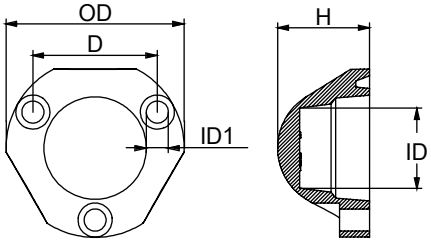
YAMAHA™ ANODES

**marked as NEW throughout the Catalog for your convenience*

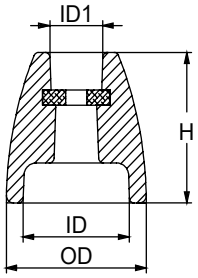
AUTOPROP™ PROPELLER ANODES

	PID	LB	KG		OD	H	D	ID	ID1	UPC
ZN	CMPNH9Z	1.104	0.501	mm	89	46	62.18	40	11	6 28309 25519 0
AL	CMPNH9A	0.423	0.192							6 28309 25524 4
MG	CMPNH9M	2.473	0.122	in	3.50	1.81	2.45	1.57	0.43	6 28309 25529 9

Autoprop 3-Blade Propeller H9

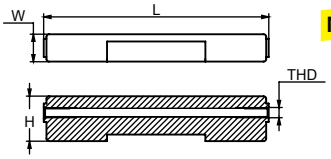


BRP™ (EVINRUDE JOHNSON) PROPELLER ANODES



	PID	LB	KG		OD	ID	ID1	H	UPC
ZN	CM5009138Z	1.28	0.58	mm	58	8.5	17	60	6 28309 25517 6
AL	CM5009138A	0.5	0.23						6 28309 25522 0
MG	CM5009138M	0.33	0.15	in	2.28	0.33	0.67	2.36	6 28309 25527 5

BRP Propeller Shaft Anode



	PID	LB	KG		L	W	H	THD	UPC
ZN	CM5008813Z	1.83	0.83	mm	174	36	20	5/16-18 UNC	6 28309 25534 3
AL	CM5008813A	0.71	0.32						6 28309 25539 8
MG	CM5008813M	0.46	0.21	in	6.86	1.4	0.8		6 28309 25544 2

BRP Stern Bracket Anode

*Remember: **Zinc** - Salt water only, **Aluminum** - Salt and Brackish water, **Magnesium** - Fresh water only.*

BRP™ ANODE KITS

ALL KITS INCLUDE FASTENING HARDWARE, INSTALLATION INSTRUCTIONS, AND ALL OF THE ANODES REQUIRED FOR 100% PROTECTION.

	PID	LB	KG	Contains	Fits	UPC
ZN	CMSTRGERKITZ	2.95	1.34	CM983494 X 1 CM393023 X 1 CM431708 X 1	BRP OMC Stringer	6 28309 24982 3
AL	CMSTRGERKITA	1.4	0.63			6 28309 24965 6
MG	CMSTRGERKITM	1.07	0.48			6 28309 24966 3

BRP OMC Stringer

	PID	LB	KG	Contains	Fits	UPC
ZN	CMCOBRAKITZ	3.69	1.68	CM984513 X 1 CM393023 X 1 CM431708 X 1	BRP OMC COBRA	6 28309 24952 6
AL	CMCOBRAKITA	1.65	0.75			6 28309 24950 2
MG	CMCOBRAKITM	1.25	0.57			6 28309 24951 9

BRP OMC COBRA

	PID	LB	KG	Contains	Fits	UPC
ZN	CMOMC5075KITZ	2.25	1.02	CM393023 X 1 CM392462 X 1	BRP OMC 50-75HP	6 28309 24958 8
AL	CMOMC5075KITA	1.11	0.505			6 28309 24956 4
MG	CMOMC5075KITM	0.89	0.41			6 28309 24957 1

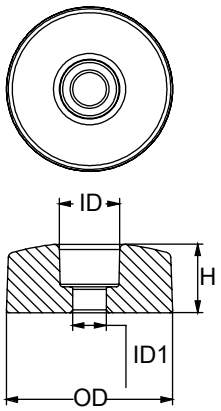
BRP OMC 50-75HP

	PID	LB	KG	Contains	Fits	UPC
ZN	CMOMCV4V6KITZ	2.45	1.11	CM393023 X 1 CM392123 X 1	BRP OMC V4-V6	6 28309 24961 8
AL	CMOMCV4V6KITA	1.17	0.53			6 28309 24959 5
MG	CMOMCV4V6KITM	0.93	0.42			6 28309 24960 1

BRP OMC V4-V6

*Remember: **Zinc** - Salt water only, **Aluminum** - Salt and Brackish water, **Magnesium** - Fresh water only.*

FLEXOFOLD™ ANODES



	PID	LB	KG		OD	H	ID	ID1	UPC
ZN	CMPNFF2Z	**0.123**	0.056	mm	31.7	13.3	11.25	6.4	6 28309 25184 0
AL	CMPNFF2A	**0.046**	0.021						6 28309 25185 7
MG	CMPNFF2M	**0.030**	0.014	**in**	**1.25**	**0.52**	**0.44**	**0.25**	6 28309 25186 4

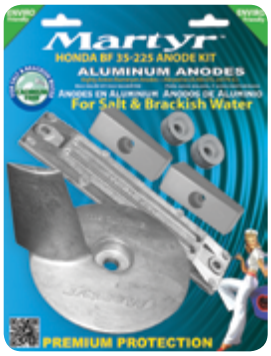
Flex-O-Fold 2-Blade Propeller Anode

HONDA™ ANODE KITS

ALL KITS INCLUDE FASTENING HARDWARE, INSTALLATION INSTRUCTIONS, AND ALL OF THE ANODES REQUIRED FOR 100% PROTECTION.

	PID	LB	KG	Contains	Fits	UPC
ZN	CMHBF75115KITZ	**4.27**	1.94	CM41107ZW1B01 X1 CM0641ZW1 X1 CM41109ZW1B00 X2	Honda BF75-90-115	6 28309 24955 7
AL	CMHBF75115KITA	**1.76**	0.8			6 28309 24953 3
MG	CMHBF75115KITM	**1.31**	0.596			6 28309 24954 0

	PID	LB	KG	Contains	Fits	UPC
ZN	CMHBF4050KITZ	**2.66**	1.21	CM41107ZV500 X 1 CM06411ZV5 X 1 CM41109ZW1003 / CM826134 X 2	Honda BF40-50HP OB-Motor	6 28309 25983 9
AL	CMHBF4050KITA	**1.17**	0.53			6 28309 26007 1
MG	CMHBF4050KITM	**0.79**	0.36			6 28309 26029 3



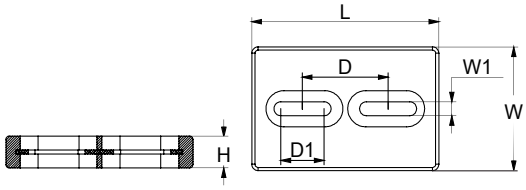
	PID	LB	KG	Contains	Fits	UPC
ZN	CMHBF35225KITZ	**2.79**	1.27	CM41107ZV500 X 1 CM06411ZV5 X 1 CM826134 X 2 CM5532187J00 X 2	Honda BF35-225 Motor	6 28309 25982 2
AL	CMHBF35225KITA	**1.23**	0.56			6 28309 26006 4
MG	CMHBF35225KITM	**0.86**	0.39			6 28309 26028 6

*Remember: **Zinc** - Salt water only, **Aluminum** - Salt and Brackish water, **Magnesium** - Fresh water only.*

HULL ANODES

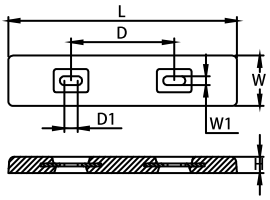
	PID	LB	KG		L	W	H	D	D1	W1	UPC
ZN	CMDIVERMINIHZ	4.65	2.11	mm	5.9	3.9	1.0	2.7	1.36	0.44	6 28309 24693 8
AL	CMDIVERMINIHA	1.96	0.89								6 28309 24694 5
MG	CMDIVERMINIHM	1.37	0.62	in	19.35	12.79	3.28	8.85	4.46	1.44	6 28309 24695 2

Bolt-On DiverMini Heavy Plate



	PID	LB	KG		L	W	H	D	D1	W1	UPC
ZN	CMZL18BGZ	18.56	8.42	mm	454	100	32	204.8	26.2	17.5	6 28309 25520 6
AL	CMZL18BGA	8.09	3.67								6 28309 25525 1
MG	CMZL18BGM	5.72	2.59	in	17.87	3.93	1.25	8.06	1.03	0.69	6 28309 25530 5

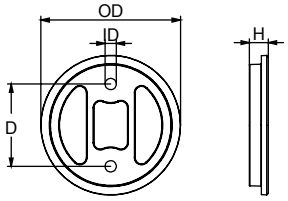
Bolt-On Hull Anode



MERCURY MARINE™ ANODES

	PID	LB	KG		OD	ID	H	D	UPC
ZN	CM847635001Z	2.223	1.008	mm	129.28	10.41	17.52	76.2	6 28309 25537 4
AL	CM847635001A	0.853	0.387						6 28309 25542 8
MG	CM847635001M	0.650	0.295	in	5.09	0.41	0.69	3	6 28309 25547 3

Mercury Racing OB Trim



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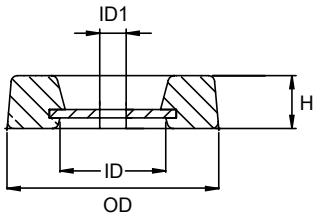
Find more online at **www.martyranodes.com**

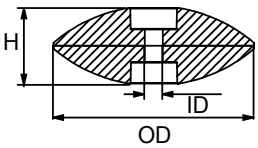
RP SERIES RUDDER ANODES



Bolt-On Rudder Plate

	PID	LB	KG		H	OD	ID	ID1	UPC
ZN	CMRP4Z	**2.24**	1.016	mm	25	100	50	12.5	6 28309 24702 7
AL	CMRP4A	**1.01**	0.457						6 28309 24708 9
MG	CMRP4M	**0.72**	0.33	**in**	**0.98**	**3.94**	**1.96**	**0.49**	6 28309 24714 0
ZN	CMRP5Z	**4.40**	2	mm	25.4	125	28	10	6 28309 24703 4
AL	CMRP5A	**1.89**	0.86						6 28309 24709 6
MG	CMRP5M	**1.32**	0.6	**in**	**1**	**4.92**	**1.10**	**0.39**	6 28309 24715 7
ZN	CMRP6SZ	**5.85**	2.656	mm	25.4	146	32	14.5	6 28309 25674 6
AL	CMRP6SA	**2.45**	1.111						6 28309 25675 3
MG	CMRP6SM	**1.67**	0.759	**in**	**1**	**5.75**	**1.26**	**0.57**	6 28309 25676 0
ZN	CMRP6Z	**8.82**	4	mm	38	146	32	14.5	6 28309 24704 1
AL	CMRP6A	**3.59**	1.627						6 28309 24710 2
MG	CMRP6M	**2.39**	1.087	**in**	**1.49**	**5.75**	**1.26**	**0.57**	6 28309 24716 4
ZN	CMRP7Z	**7.83**	3.55	mm	25	168	40	12	6 28309 24705 8
AL	CMRP7A	**3.15**	1.43						6 28309 24711 9
MG	CMRP7M	**2.08**	0.946	**in**	**0.98**	**6.61**	**1.57**	**0.47**	6 28309 24717 1
ZN	CMRP8Z	**11.50**	5.22	mm	26	197	20	12	6 28309 24706 5
AL	CMRP8A	**4.56**	2.07						6 28309 24712 6
MG	CMRP8M	**2.98**	1.353	**in**	**1.02**	**7.75**	**0.79**	**0.47**	6 28309 24718 8
ZN	CMRP9Z	**14.92**	6.77	mm	25.4	222.3	14	12	6 28309 24707 2
AL	CMRP9A	**5.87**	2.666						6 28309 24713 3
MG	CMRP9M	**3.81**	1.73	**in**	**1**	**8.75**	**0.55**	**0.47**	6 28309 24719 5

EURO STYLE RUDDER/TRIM TAB ANODES



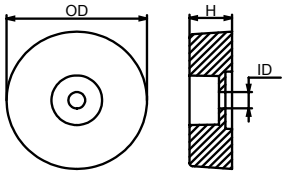
Sold as two halves, assembled with a zip tie

	PID	LB	KG		H	OD	ID	UPC
ZN	CMF50CZ	0.34	**0.16**	mm	**22**	**50**	**7**	6 28309 24658 7
AL	CMF50CA	0.12	**0.06**	in	0.82	2	0.26	6 28309 24672 3
ZN	CMF70CZ	0.80	**0.36**	mm	**26**	**70**	**9**	6 28309 24659 4
AL	CMF70CA	0.28	**0.12**	in	1.02	2 ¾	0.35	6 28309 24673 0
ZN	CMF90CZ	1.82	**0.84**	mm	**34**	**90**	**9**	6 28309 24660 0
AL	CMF90CA	0.64	**0.3**	in	1.33	3 ½	0.35	6 28309 24674 7
ZN	CMF110CZ	2.88	**1.3**	mm	**38**	**110**	**11**	6 28309 24679 2
AL	CMF110CA	1.02	**0.3**	in	1.5	4 ⅓	0.42	6 28309 26004 0
ZN	CMF125CZ	4.2	**1.9**	mm	**42**	**125**	**11**	6 28309 24654 9
AL	CMF125CA	1.48	**0.68**	in	1.66	5	0.45	6 28309 24666 2
ZN	CMF140CZ	6.52	**2.96**	mm	**52**	**140**	**13**	6 28309 25981 5
AL	CMF140CA	2.3	**1.04**	in	2	5 ½	0.5	6 28309 26005 7

*Remember: **Zinc** - Salt water only, **Aluminum** - Salt and Brackish water, **Magnesium** - Fresh water only.*

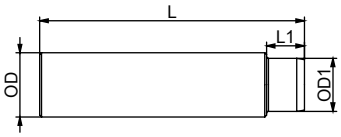
ROUND PLATE ANODES

	PID	LB	KG		OD	ID	H	UPC
AL	SGBA001A	2.18	0.99	mm	125	15	38	6 28309 18384 4
				in	4.92	0.59	1.50	
MG	SGBA001M	1.52	0.69	mm	125	15	38	6 28309 18435 3
				in	4.92	0.59	1.50	
AL	SGBA506A	3.50	1.59	mm	140	16	40	6 28309 18385 1
				in	5.5	0.63	1.57	
MG	SGBA506M	2.45	1.11	mm	140	16	40	6 28309 18523 7
				in	5.5	0.63	1.57	



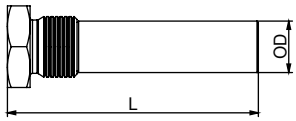
SEASALL ENGINE ANODES | **anode only**

	PID	LB	KG		L	L1	OD	0D1	UPC
ZN	CMHS1760Z	0.231	0.105	mm	70	10	17	14	6 28309 25565 7
				in	2.75	0.39	0.67	0.55	



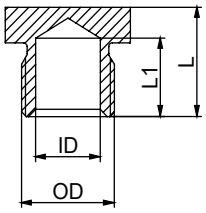
SEASALL ENGINE ANODES | **w/plug**

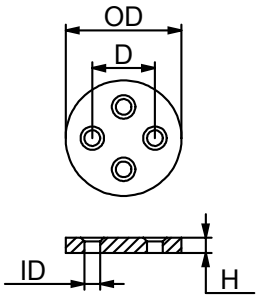
	PID	LB	KG		L	OD	UPC
ZN	CMHS1760PZ	0.349	0.159	mm	83	17	6 28309 25564 0
				in	3.27	0.67	



SEASALL ENGINE ANODES | **w/brass plug**

PID	LB	KG		ID	OD	L	L1	UPC
CMEPHS1420	0.118	0.054	mm	14	M20 X15	23	16.5	6 28309 25566 4
			in	0.55		0.90	0.65	





SHAFRAN™ ANODES

	PID	LB	KG		OD	D	ID	H	UPC
ZN	CMSH732Z	8.6	3.9	mm	169	150	12	25	6 28309 23911 4
				in	6.29	5.90	0.47	0.98	

SUZUKI™ ANODE KITS

ALL KITS INCLUDE FASTENING HARDWARE, INSTALLATION INSTRUCTIONS, AND ALL OF THE ANODES REQUIRED FOR 100% PROTECTION.

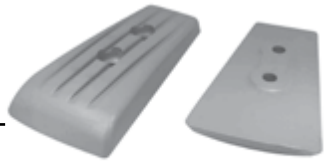
	PID	LB	KG	Contains	Fits	UPC
ZN	CMSZ90140KITZ	1.72	0.78	CM5532190J01 X 1 CM1113094600 X 4 CM3C7602181A0 X 1	Suzuki 90-100-115 -140 HP	6 28309 24964 9
AL	CMSZ90140KITA	0.85	0.385			6 28309 24962 5
MG	CMSZ90140KITM	0.59	0.27			6 28309 24963 2

	PID	LB	KG	Contains	Fits	UPC
ZN	CMSZ4050KITZ	1.19	0.54	CM5532095310 X 2 CM1113094600 X 4 CM5512595500 X 1	Suzuki 40-50 HP	6 28309 24969 4
AL	CMSZ4050KITA	0.86	0.39			6 28309 24967 0
MG	CMSZ4050KITM	0.67	0.30			6 28309 24968 7

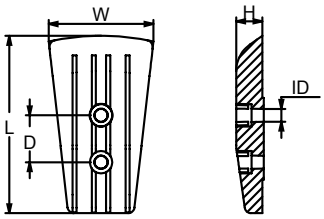
YANMAR™ ANODE KITS

	PID	LB	KG	Contains	Fits	UPC
ZN	CM11977392600KITZ	0.88	0.40	CME2Z X 1 CME1FZ X 4	Yanmar 119773-92600	6 28309 25969 3

VOLVO PENTA™ ANODES



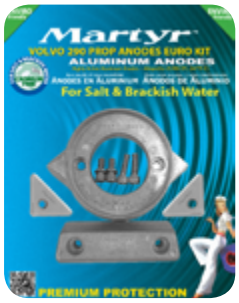
	PID	LB	KG		L	H	W	D	ID	UPC
ZN	CM3589875Z	1.82	0.83	mm	132.3	19.6	78	35	16.6	6 28309 21148 6
AL	CM3589875A	0.72	0.33							6 28309 21147 9
MG	CM3589875M	0.50	0.23	in	5.20	0.77	3.07	1.38	0.65	6 28309 21169 1



VOLVO PENTA DPR PLATE

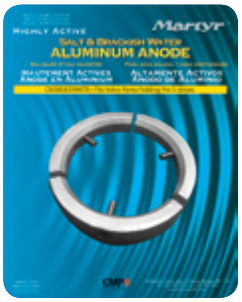
VOLVO™ ANODE KITS

ALL KITS INCLUDE FASTENING HARDWARE, INSTALLATION INSTRUCTIONS, AND ALL OF THE ANODES REQUIRED FOR 100% PROTECTION.



	PID	LB	KG	Contains	Fits	UPC
ZN	CM290EUKITZ	3.74	1.70	CMV18 X 1 CM852835 X 1 CM872793 X 2	Fits Volvo Penta 290	6 28309 25510 7
AL	CM290EUKITA	1.85	0.84			6 28309 25508 4
MG	CM290EUKITM	1.32	0.60			6 28309 25509 1

	PID	LB	KG	Contains	Fits	UPC
ZN	CM290DPEUKITZ	2.2	0.54	CM875821 X 1 CM852835 X 1 CM872793 X 1	Fits Volvo Penta 290DP	6 28309 25507 7
AL	CM290DPEUKITA	1.67	0.76			6 28309 25505 3
MG	CM290DPEUKITM	1.23	0.56			6 28309 25506 0



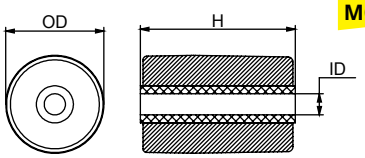
	PID	LB	KG	Contains	Fits	UPC
ZN	CM3584442KITZ	0.70	0.32	CM3584442D X 3	Volvo 4-Blade Folding Prop	6 28309 25513 8
AL	CM3584442KITA	0.46	0.21			6 28309 25511 4
MG	CM3584442KITM	0.40	0.18			6 28309 25512 1

	PID	LB	KG	Contains	Fits	UPC
ZN	CMVPIPSKITZ	9.86	4.48	CM3593881 X 1 CM40005875 X 1	VolvoPenta IPS SternDrive	6 28309 25988 4
AL	CMVPIPSKITA	4.18	1.90			6 28309 26012 5
MG	CMVPIPSKITM	2.77	1.26			6 28309 26034 7

*Remember: **Zinc** - Salt water only, **Aluminum** - Salt and Brackish water, **Magnesium** - Fresh water only.*

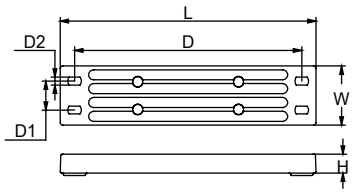
VOLVO™ DPH/DPR EXHAUST AND COOLING WATER PIPE ANODES

	PID	LB	KG		OD	H	ID	UPC
ZN	CM21718129Z	1.018	0.462	mm	38.9	61.5	8.3	6 28309 25161 1
AL	CM21718129A	0.465	0.211					6 28309 25162 8
MG	CM21718129M	0.339	0.154	in	1.53	2.42	0.33	6 28309 25163 5



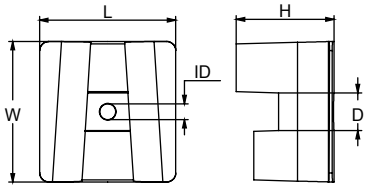
YAMAHA™ ENGINE ANODES

	PID	LB	KG		L	W	H	D	D1	D2	UPC
ZN	CM6AW4525100Z	1.46	0.663	mm	203	47	15	180.35	23	7.4	6 28309 25535 0
AL	CM6AW4525100A	0.56	0.254								6 28309 25540 4
MG	CM6AW4525100M	0.35	0.161	in	7.99	1.85	0.59	7.1	0.90	0.29	6 28309 25545 9



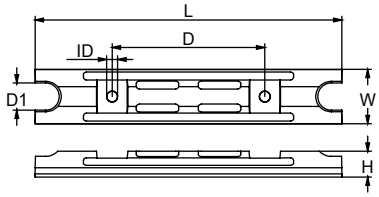
Yamaha OB Engine Anode 6AW-45251-00

	PID	LB	KG		L	W	H	ID	D	UPC
ZN	CM6AW4537300Z	2.42	1.097	mm	90	93	35.5	11	25	6 28309 25536 7
AL	CM6AW4537300A	0.93	0.421							6 28309 25541 1
MG	CM6AW4537300M	0.59	0.267	in	3.54	3.66	1.39	0.43	0.98	6 28309 25546 6



YAMAHA 300 - 350 HP

	PID	LB	KG		L	W	H	ID	D	D1	UPC
ZN	CM6H14525102Z	1.08	0.494	mm	203	36	17	7	101	18	6 28309 10076 6
AL	CM6H14525102A	0.43	0.195								6 28309 12657 5
MG	CM6H14525102M	0.27	0.122	in	7.99	1.42	0.67	0.27	3.97	0.71	6 28309 12658 2



Yamaha OB Engine Anode 6H1-45251-02

*Remember: **Zinc** - Salt water only, **Aluminum** - Salt and Brackish water, **Magnesium** - Fresh water only.*

YAMAHA MARINER™ ANODE KITS

ALL KITS INCLUDE FASTENING HARDWARE, INSTALLATION INSTRUCTIONS, AND ALL OF THE ANODES REQUIRED FOR 100% PROTECTION.

	PID	LB	KG	Contains	Fits	UPC
ZN	CMY6090KITZ	2.429	1.102	CM6884537102 X 1 CM6H14525102 X 1	Yamaha 60-90HP	6 28309 24975 5
AL	CMY6090KITA	1.16	0.525			6 28309 24973 1
MG	CMY6090KITM	0.873	0.396			6 28309 24974 8

	PID	LB	KG	Contains	Fits	UPC
ZN	CMY4060KITZ	1.79	0.81	CM65W4525100 X 3 CM67C4525100 X 1 CM67C4537100 X 1	Yamaha 4T 40-60 HP	6 28309 24972 4
AL	CMY4060KITA	0.92	0.42			6 28309 24970 0
MG	CMY4060KITM	0.74	0.34			6 28309 24971 7

	PID	LB	KG	Contains	Fits	UPC
ZN	CMY4050KITZ	2.49	1.13	CM6644537101 X 1 CM65W4525100 X 1 CM63D4525101 X 1 CM67C4525100 X 1 CM6881132500 X 1	Yamaha 40-50HP	6 28309 25991 4
AL	CMY4050KITA	1.08	0.49			6 28309 26015 6
MG	CMY4050KITM	0.75	0.34			6 28309 26037 8

	PID	LB	KG	Contains	Fits	UPC
ZN	CMY80100KITZ	2.27	1.03	CM6H14525102 X 1 CM67F4537100 X 1 CM67F1132500 X 1	Yamaha 80-100HP	6 28309 25992 1
AL	CMY80100KITA	0.99	0.45			6 28309 26016 3
MG	CMY80100KITM	0.68	0.31			6 28309 26038 5

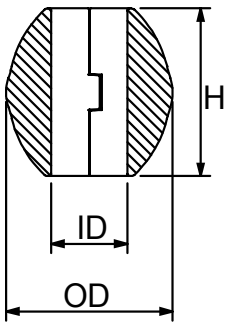
*Remember: **Zinc** - Salt water only, **Aluminum** - Salt and Brackish water, **Magnesium** - Fresh water only.*

PLEASURECRAFT

SHAFT & RUDDER ANODES

STREAMLINED SHAFT ANODES | IMPERIAL

	PID	LB	KG		H	OD	ID	UPC
ZN	CMX00	0.51	0.23	mm	50	42	12	6 28309 12220 1
AL	CMX00A	0.18	0.08					6 28309 24256 5
MG	CMX00M	0.15	0.07	in	1.95	1.64	0.5	6 28309 18277 9
ZN	CMX01	0.80	0.36	mm	51	52	19	6 28309 10365 1
AL	CMX01AL	0.28	0.13					6 28309 12752 7
MG	CMX01M	0.18	0.08	in	2	2.04	0.75	6 28309 12771 8
ZN	CMX018125	0.75	0.34	mm	50.8	51.8	20.57	6 28309 12350 5
AL	CMX018125AL	0.31	0.14					6 28309 12751 0
MG	CMX01825M	0.20	0.09	in	2	2.04	0.81	
ZN	CMX02	0.90	0.41	mm	53	54	22	6 28309 10366 8
AL	CMX02AL	0.32	0.15					6 28309 12753 4
MG	CMX02M	0.22	0.10	in	2.08	2.12	0.87	6 28309 12772 5
ZN	CMX03	0.92	0.42	mm	55	55	25	6 28309 10367 5
AL	CMX03AL	0.34	0.15					6 28309 12626 1
MG	CMX03M	0.22	0.10	in	2.15	2.16	1	6 28309 11534 0
ZN	CMX04	1.14	0.52	mm	57	60	29	6 28309 10368 2
AL	CMX04AL	0.40	0.18					6 28309 12755 8
MG	CMX04M	0.28	0.13	in	2.25	2.36	1.12	6 28309 12773 2
ZN	CMX05	1.17	0.53	mm	60	61	32	6 28309 10369 9
AL	CMX05AL	0.44	0.20					6 28309 12756 5
MG	CMX05M	0.28	0.13	in	2.35	2.42	1.25	6 28309 11535 7
ZN	CMX05A	1.75	0.79	mm	62	68	32	6 28309 10370 5
AL	CMX05AAL	0.71	0.32					6 28309 24257 2
MG	CMX05AM	0.47	0.21	in	2.45	2.68	1.25	6 28309 24386 9
ZN	CMX06	1.48	0.67	mm	60	67	35	6 28309 10371 2
AL	CMX06AL	0.56	0.25					6 28309 12757 2
MG	CMX06M	0.36	0.16	in	2.35	2.66	1.37	6 28309 12774 9
ZN	CMX0625	0.70	0.32	mm	50.8	48.76	15.75	6 28309 15714 2
AL	CMX0625AL	0.28	0.13					
MG	CMX0625M	0.17	0.08	in	2	1.92	0.62	
ZN	CMX07	1.68	0.76	mm	63	70	38	6 28309 10372 9
AL	CMX07AL	0.64	0.29					6 28309 12758 9
MG	CMX07M	0.42	0.19	in	2.5	2.78	1.5	6 28309 12775 6
ZN	CMX08	2.48	1.13	mm	73	82	44	6 28309 10373 6
AL	CMX08AL	0.88	0.40					6 28309 12759 6
MG	CMX08M	0.60	0.27	in	2.75	3.25	1.75	6 28309 12776 3



THE WORLD'S BEST SHAFT ANODE DESIGN:

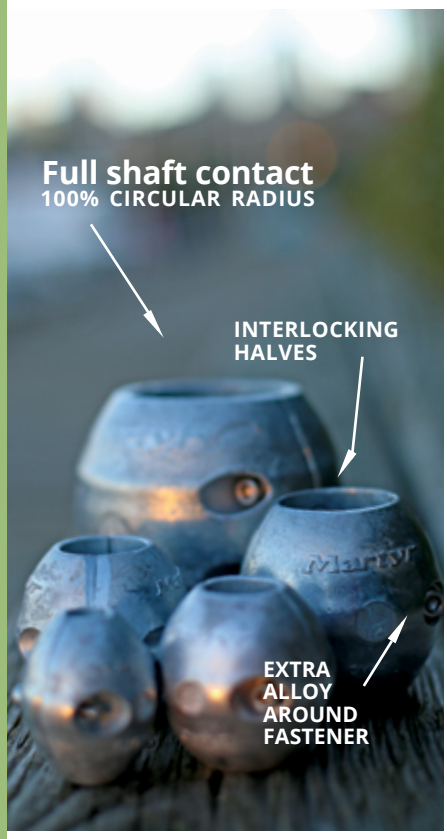
- ***FIT & LONGEVITY***
- ***EASY INSTALLATION UNDERWATER: BOLT RETAINING WASHERS PREVENT THE ANODE FROM FALLING OFF***

CHOOSE FROM TWO STAINLESS STEEL HARDWARE OPTIONS:

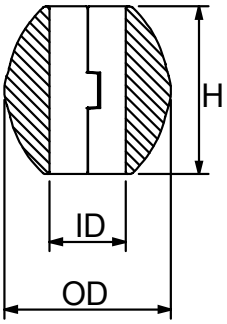
Allen head w/lock washer & bolt retaining washer

Slotted head w/lock washer & bolt retaining washer

STREAMLINED SHAFT ANODES | IMPERIAL



	PID	LB	KG		H	OD	ID	UPC
ZN	CMX09	3.10	1.41	mm	73	82	51	6 28309 10374 3
AL	CMX09AL	1.10	0.50					6 28309 12760 2
MG	CMX09M	0.80	0.36	in	2.9	3.6	2	6 28309 12777 0
ZN	CMX10	6.08	2.76	mm	95	106	57	6 28309 10375 0
AL	CMX10AL	2.16	0.98					6 28309 12761 9
MG	CMX10M	1.57	0.71	in	3.75	4.25	2.25	6 28309 22963 4
ZN	CMX11	5.18	2.35	mm	95	106	63	6 28309 10376 7
AL	CMX11AL	1.84	0.83					6 28309 12762 6
MG	CMX11M	1.34	0.61	in	3.75	4.25	2.5	6 28309 19129 0
ZN	CMX12	7.53	3.42	mm	92	120	70	6 28309 10377 4
AL	CMX12AL	2.67	1.21					6 28309 12763 3
MG	CMX12M	1.94	0.88	in	3.62	4.87	2.75	6 28309 24387 6
ZN	CMX13	6.54	2.97	mm	92	120	76	6 28309 10378 1
AL	CMX13AL	2.32	1.05					6 28309 12764 0
MG	CMX13M	1.69	0.77	in	3.62	4.87	3	6 28309 24388 3
ZN	CMX14Z	7.78	3.54	mm	108	122	83	6 28309 23836 0
AL	CMX14A	3.02	1.37					6 28309 23834 6
MG	CMX14M	1.88	0.86	in	4.25	4.8	3.25	6 28309 23835 3
ZN	CMX15	9.03	4.10	mm	96	145	89	6 28309 12232 4
AL	CMX15AL	3.20	1.45					6 28309 17061 5
MG	CMX15M	2.33	1.06	in	3.78	5.7	3.5	6 28309 24389 0
ZN	CMX17	9.20	4.20	mm	89	152	101	6 28309 12223 2
AL	CMX17AL	3.26	1.48					6 28309 17577 1
MG	CMX17M	2.37	1.08	in	3.5	6	4	6 28309 24390 6
ZN	CMX18	9.00	4.00	mm	89	159	114	6 28309 12793 0
AL	CMX18AL	3.19	1.45					6 28309 17579 5
MG	CMX18M	2.32	1.05	in	3.5	6.25	4.5	6 28309 24391 3



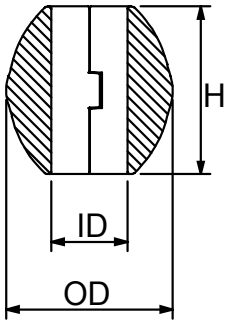
THE WORLD'S BEST SHAFT ANODE DESIGN:

- ***FIT & LONGEVITY***
- ***EASY INSTALLATION UNDERWATER: BOLT RETAINING WASHERS PREVENT THE ANODE FROM FALLING OFF***

*Remember: **Zinc** - Salt water only, **Aluminum** - Salt and Brackish water, **Magnesium** - Fresh water only.*

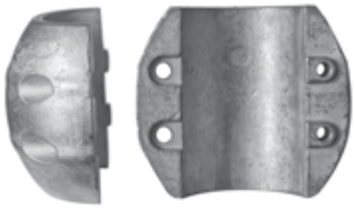
STREAMLINED SHAFT ANODES | IMPERIAL

	PID	LB	KG		H	OD	ID	UPC
ZN	CMX19	9.80	4.44	mm	89	171	127	6 28309 12794 7
AL	CMX19AL	3.83	1.74					6 28309 17580 1
MG	CMX19M	2.44	1.12	in	3.5	6.75	5	6 28309 24392 0
ZN	CMX20	11.00	5.00	mm	89	185	140	6 28309 12795 4
AL	CMX20AL	3.90	1.77					6 28309 23837 7
MG	CMX20M	2.84	1.29	in	3.5	7.3	5.5	6 28309 23838 4
ZN	CMX21	12.00	5.44	mm	89	198	152	6 28309 12796 1
AL	CMX21AL	4.26	1.93					6 28309 17582 5
MG	CMX21M	3.10	1.40	in	3.5	7.8	6	6 28309 24393 7



STREAMLINED SHAFT ANODES | METRIC

	PID	LB	KG		H	OD	ID	UPC
ZN	CMXM20Z	0.73	0.33	mm	48	51.2	20	6 28309 23862 9
AL	CMXM20A	0.28	0.13					6 28309 23863 6
MG	CMXM20M	0.20	0.09	in	1.89	2.01	0.79	6 28309 23864 3
ZN	CMX22Z	0.68	0.31	mm	48	51.2	22	6 28309 23842 1
AL	CMX22A	0.28	0.13					6 28309 23840 7
MG	CMX22M	0.17	0.08	in	1.89	2.01	0.86	6 28309 23841 4
ZN	CMX25	1.08	0.49	mm	55	56	25	6 28309 10379 8
AL	CMX25AL	0.38	0.17					6 28309 12765 7
MG	CMX25M	0.29	0.13	in	2.17	2.20	1	6 28309 24394 4
ZN	CMX28	1.28	0.58	mm	56	61	28	6 28309 23845 2
AL	CMX28AL	0.51	0.23					6 28309 23843 8
MG	CMX28M	0.33	0.15	in	2.20	2.40	1.10	6 28309 23844 5
ZN	CMX30	1.21	0.55	mm	61	61	30	6 28309 10380 4
AL	CMX30AL	0.43	0.19					6 28309 12766 4
MG	CMX30M	0.31	0.14	in	2.40	2.40	1.18	6 28309 12778 7
ZN	CMX34	1.73	0.79	mm	65	66	34	6 28309 22962 7
AL	CMX34AL	0.68	0.31					6 28309 21521 7
MG	CMX34M	0.44	0.20	in	2.60	2.56	1.34	6 28309 21522 4
ZN	CMX35	1.52	0.69	mm	65	66	35	6 28309 10381 1
AL	CMX35A	0.54	0.24					6 28309 12767 1
MG	CMX35M	0.39	0.18	in	2.62	2.62	1.38	6 28309 12779 4
ZN	CMX40	2.64	1.20	mm	73	82	40	6 28309 10382 8
AL	CMX40AL	0.94	0.43					6 28309 12768 8
MG	CMX40M	0.68	0.31	in	2.87	3.25	1.57	6 28309 12780 0



FULL SHAFT CONTACT: 100% CIRCULAR RADIUS

INTERLOCKING HALVES

EXTRA ALLOY AROUND FASTENER

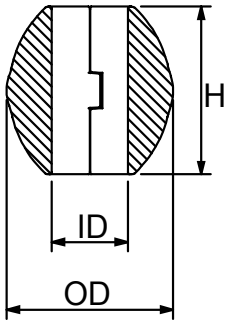
CHOOSE FROM TWO STAINLESS STEEL HARDWARE OPTIONS:

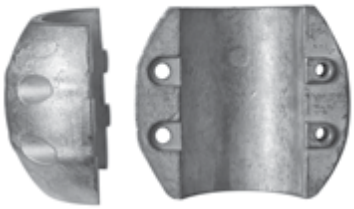
Allen head w/lock washer & bolt retaining washer

Slotted head w/lock washer & bolt retaining washer

*Remember: **Zinc** - Salt water only, **Aluminum** - Salt and Brackish water, **Magnesium** - Fresh water only.*

STREAMLINED SHAFT ANODES | METRIC





	PID	LB	KG		H	OD	ID	UPC
ZN	CMX45	2.51	1.14	mm	73	82	45	6 28309 11530 2
AL	CMX45AL	0.89	0.40					6 28309 12769 5
MG	CMX45M	0.65	0.29	in	2.87	3.25	1.77	6 28309 12781 7
ZN	CMX50	2.09	0.95	mm	73	82	50	6 28309 10383 5
AL	CMX50AL	0.74	0.34					6 28309 12770 1
MG	CMX50M	0.54	0.24	in	2.87	3.25	2	6 28309 12782 4
ZN	CMX55	6.39	2.90	mm	90	105	55	6 28309 12821 0
AL	CMX55AL	2.27	1.03					6 28309 19282 2
MG	CMX55M	1.65	0.75	in	3.54	4.13	2.17	6 28309 22964 1
ZN	CMX60	5.70	2.59	mm	90	110	60	6 28309 12580 6
AL	CMX60A	2.02	0.92					6 28309 19335 5
MG	CMX60M	1.47	0.67	in	3.54	4.33	2.36	6 28309 19343 0
ZN	CMX65	8.11	3.68	mm	90	120	65	6 28309 12822 7
AL	CMX65A	2.88	1.03					6 28309 19336 2
MG	CMX65M	2.09	0.91	in	3.54	4.72	2.56	6 28309 19344 7
ZN	CMX70	8.02	3.64	mm	100	128	70	6 28309 12823 4
AL	CMX70A	2.85	1.29					6 28309 19337 9
MG	CMX70M	2.01	0.91	in	3.94	5.04	2.76	6 28309 19345 4
ZN	CMX75	8.30	3.77	mm	100	125	75	6 28309 12824 1
AL	CMX75A	2.95	1.34					6 28309 19338 6
MG	CMX75M	2.14	0.97	in	3.94	4.92	2.95	6 28309 19346 1
ZN	CMX80	8.59	3.90	mm	100	130	80	6 28309 12825 8
AL	CMX80A	3.05	1.38					6 28309 19340 9
MG	CMX80M	2.22	1.00	in	3.94	5.12	3.15	6 28309 19347 8
ZN	CMX85Z	6.70	3.04	mm	106	122	85	6 28309 23846 9
AL	CMX85A	2.66	1.21					6 28309 19339 3
MG	CMX85M	1.74	0.79	in	4.17	4.80	3.34	6 28309 19348 5
ZN	CMX90	10.84	4.92	mm	110	144	90	6 28309 12827 2
AL	CMX90A	4.32	1.96					6 28309 19341 6
MG	CMX90M	2.84	1.29	in	4.33	5.67	3.54	6 28309 19349 2
ZN	CMX95Z	9.70	4.40	mm	110	144	95	6 28309 23847 6
AL	CMX95A	3.88	1.76					6 28309 19342 3
MG	CMX95M	2.56	1.16	in	4.33	5.67	3.74	6 28309 19350 8

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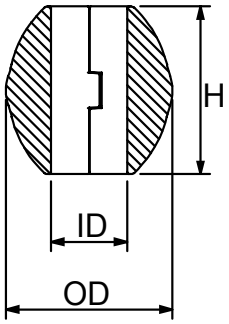
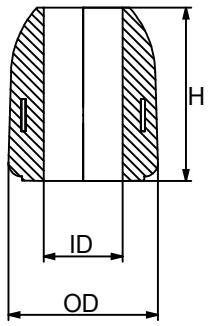
STREAMLINED SHAFT ANODES | METRIC

	PID	LB	KG		H	OD	ID	UPC
ZN	CMX100	11.3	5.12	mm	100	150	100	6 28309 12829 6
AL	CMX100AL	4.47	2.03					6 28309 19243 3
MG	CMX100M	2.92	1.32	in	3.94	5.83	3.93	6 28309 19244 0
ZN	CMX110	28.79	13.06	mm	160	180	110	6 28309 12831 9
AL	CMX110A	11.15	5.06					6 28309 23819 3
MG	CMX110M	7.14	3.24	in	6.30	7.09	4.33	6 28309 23820 9
ZN	CMX115Z	27.47	12.46	mm	160	180	115	6 28309 12832 6
AL	CMX115A	10.67	4.84					6 28309 23822 3
MG	CMX115M	6.83	3.10	in	6.30	7.09	4.53	6 28309 23823 0
ZN	CMX120Z	25.35	11.50	mm	160	180	120	6 28309 23827 8
AL	CMX120A	9.83	4.46					6 28309 23825 4
MG	CMX120M	6.30	2.86	in	6.30	7.09	4.72	6 28309 23826 1
ZN	CMX123Z	23.94	10.86	mm	160	180	123	6 28309 23830 8
AL	CMX123A	9.30	4.22					6 28309 23828 5
MG	CMX123M	5.99	2.72	in	6.30	7.09	4.84	6 28309 23829 2
ZN	CMX125Z	21.82	9.90	mm	160	180	125	6 28309 23833 9
AL	CMX125A	8.42	3.82					6 28309 23831 5
MG	CMX125M	5.47	2.48	in	6.30	7.09	4.92	6 28309 23832 2

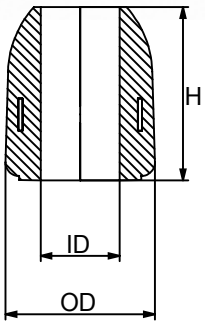


CLAMP SHAFT ANODES | IMPERIAL

	PID	LB	KG		H	OD	ID	UPC
ZN	CMXC01Z	1.66	0.76	mm	65	56	19	6 28309 17485 9
AL	CMXC01A	0.65	0.29					6 28309 18009 6
MG	CMXC01M	0.42	0.19	in	2.54	2.19	0.75	6 28309 24398 2
ZN	CMXC02Z	1.57	0.71	mm	65	56	22	6 28309 17488 0
AL	CMXC02A	0.62	0.28					6 28309 18010 2
MG	CMXC02M	0.39	0.18	in	2.54	2.19	0.87	6 28309 24399 9
ZN	CMXC03Z	1.46	0.66	mm	65	56	25	6 28309 17491 0
AL	CMXC03A	0.57	0.26					6 28309 18011 9
MG	CMXC03M	0.35	0.16	in	2.54	2.19	1	6 28309 19600 4
ZN	CMXC04Z	1.35	0.61	mm	65	56	29	6 28309 17494 1
AL	CMXC04A	0.53	0.24					6 28309 18012 6
MG	CMXC04M	0.34	0.15	in	2.54	2.19	1.12	6 28309 24400 2
ZN	CMXC05Z	2.67	1.21	mm	78	70	32	6 28309 17497 2
AL	CMXC05A	1.05	0.48					6 28309 18013 3
MG	CMXC05M	0.67	0.30	in	3.05	2.7	1.25	6 28309 24401 9



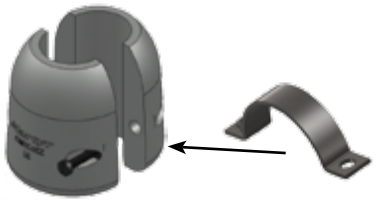
*Remember: **Zinc** - Salt water only, **Aluminum** - Salt and Brackish water, **Magnesium** - Fresh water only.*



Comes with slotted head w/ lock washer & bolt retaining washer.

CLAMP SHAFT ANODES | IMPERIAL

	PID	LB	KG		H	OD	ID	UPC
ZN	CMXC06Z	2.50	1.13	mm	78	70	35	6 28309 17500 9
AL	CMXC06A	0.98	0.44					6 28309 18014 0
MG	CMXC06M	0.63	0.29	in	3.05	2.7	1.37	6 28309 24402 6
ZN	CMXC07Z	2.30	1.04	mm	78	70	38	6 28309 17503 0
AL	CMXC07A	0.90	0.41					6 28309 18015 7
MG	CMXC07M	0.56	0.25	in	3.05	2.7	1.5	6 28309 24403 3
ZN	CMXC08Z	5.25	2.39	mm	100	85	45	6 28309 17506 1
AL	CMXC08A	2.06	0.93					6 28309 18016 4
MG	CMXC08M	1.31	0.59	in	3.92	3.33	1.75	6 28309 24404 0
ZN	CMXC09Z	4.60	2.09	mm	100	85	51	6 28309 17509 2
AL	CMXC09A	1.80	0.82					6 28309 18017 1
MG	CMXC09M	1.15	0.52	in	3.92	3.33	2	6 28309 24405 7



INTERNAL STEEL CLAMP INSERT HOLDS THE ANODE COMPLETELY TIGHT TO THE SHAFT

ENGINEERED TO ENSURE COMPLETE SHAFT CONTACT:

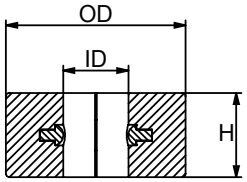
- ***CLAMP INSERT ENSURES TIGHT FIT TO SHAFT FOR DURATION OF LIFE***
- ***STAINLESS STEEL HARDWARE AND LOCK WASHERS INCLUDED***
- ***BOLT RETAINING WASHERS PREVENT THE ANODE FROM FALLING OFF – EASY INSTALLATION UNDERWATER***

CLAMP SHAFT ANODES | METRIC

	PID	LB	KG		H	OD	ID	UPC
ZN	CMXC25Z	1.50	0.67	mm	65	56	25	6 28309 17512 2
AL	CMXC25A	0.59	0.27					6 28309 18018 8
MG	CMXC25M	0.38	0.17	in	2.5	2.2	1	6 28309 24406 4
ZN	CMXC30Z	1.30	0.59	mm	65	56	30	6 28309 17515 3
AL	CMXC30A	0.51	0.23					6 28309 18019 5
MG	CMXC30M	0.33	0.15	in	2.5	2.2	1.19	6 28309 24407 1
ZN	CMXC35Z	2.50	1.13	mm	78	69	35	6 28309 17518 4
AL	CMXC35A	0.98	0.44					6 28309 18020 1
MG	CMXC35M	0.63	0.29	in	3	2.74	1.37	6 28309 24408 8
ZN	CMXC40Z	2.16	0.98	mm	78	69	40	6 28309 17521 4
AL	CMXC40A	0.85	0.39					6 28309 18021 8
MG	CMXC40M	0.54	0.24	in	3	2.74	1.58	6 28309 24409 5
ZN	CMXC45Z	5.20	2.36	mm	100	85	45	6 28309 17524 5
AL	CMXC45A	2.04	0.93					6 28309 18022 5
MG	CMXC45M	0.19	0.09	in	4	3.33	1.75	6 28309 24410 1
ZN	CMXC50Z	4.70	2.13	mm	100	85	50	6 28309 17527 6
AL	CMXC50A	1.84	0.83					6 28309 18023 2
MG	CMXC50M	1.18	0.54	in	4	3.33	2	6 28309 24411 8
ZN	CMXC60Z	3.48	1.58	mm	100	85	60	6 28309 17530 6
AL	CMXC60A	1.36	0.62					6 28309 18024 9
MG	CMXC60M	0.87	0.39	in	4	3.33	2.33	6 28309 24412 5
ZN	CMXC70Z	6.43	2.92	mm	96	113	70	6 28309 17533 7
AL	CMXC70A	2.57	1.17					6 28309 18025 6
MG	CMXC70M	1.61	0.73	in	3.75	4.43	2.75	6 28309 24413 2

LIMITED CLEARANCE SHAFT ANODES | IMPERIAL

	PID	LB	KG		H	OD	ID	UPC
ZN	CMC01	0.66	0.3	mm	25	54	19	6 28309 10303 3
AL	CMC01AL	0.26	0.12					6 28309 19154 2
MG	CMC01M	0.21	0.10	in	1	2.12	0.75	6 28309 24302 9
ZN	CMC02	0.64	0.29	mm	25	54	22	6 28309 10304 0
AL	CMC02AL	0.25	0.11					6 28309 19155 9
MG	CMC02M	0.20	0.09	in	1	2.12	0.87	6 28309 24303 6
ZN	CMC03	1.21	0.55	mm	32	63	25	6 28309 10305 7
AL	CMC03AL	0.47	0.21					6 28309 17058 5
MG	CMC03M	0.38	0.17	in	1.25	2.5	1	6 28309 15991 7
ZN	CMC04	1.10	0.50	mm	32	63	28	6 28309 10306 4
AL	CMC04AL	0.43	0.20					6 28309 19156 6
MG	CMC04M	0.35	0.16	in	1.25	2.5	1.12	6 28309 24304 3
ZN	CMC05	1.15	0.52	mm	32	63	32	6 28309 10307 1
AL	CMC05AL	0.45	0.21					6 28309 17059 2
MG	CMC05M	0.35	0.16	in	1.25	2.5	1.25	6 28309 15992 4
ZN	CMC06	1.61	0.73	mm	32	76	35	6 28309 10308 8
AL	CMC06AL	0.63	0.29					6 28309 17060 8
MG	CMC06M	0.52	0.24	in	1.25	3	1.37	6 28309 15993 1
ZN	CMC07	1.48	0.67	mm	32	76	38	6 28309 10309 5
AL	CMC07AL	0.58	0.26					6 28309 19157 3
MG	CMC07M	0.48	0.22	in	1.25	3	1.5	6 28309 22977 1
ZN	CMC08	2.27	1.03	mm	35	89	44	6 28309 10310 1
AL	CMC08AL	0.89	0.40					6 28309 19158 0
MG	CMC08M	0.73	0.33	in	1.37	3.5	1.75	6 28309 24305 0
ZN	CMC09	2.08	0.95	mm	35	89	51	6 28309 10311 8
AL	CMC09AL	0.82	0.37					6 28309 10312 5
MG	CMC09M	0.67	0.30	in	1.37	3.5	2	6 28309 24307 4
ZN	CMC09A	1.76	0.80	mm	35	89	57	6 28309 19159 7
AL	CMC09AAL	0.69	0.31					6 28309 19160 3
MG	CMC09AM	0.57	0.26	in	1.37	3.5	2.25	6 28309 24306 7
ZN	CMC12	5.40	2.45	mm	38	127	63	6 28309 10313 2
AL	CMC12AL	2.12	0.96					6 28309 10314 9
MG	CMC12M	1.74	0.79	in	1.5	5	2.5	6 28309 24311 1
ZN	CMC12A	5.18	2.35	mm	38	127	70	6 28309 19161 0
AL	CMC12AAL	2.03	0.92					6 28309 19162 7
MG	CMC12AM	1.67	0.76	in	1.5	5	2.75	6 28309 24310 4
ZN	CMC13	4.85	2.2	mm	38	127	76	6 28309 10315 6
AL	CMC13AL	1.90	0.86					6 28309 19163 4
MG	CMC13M	1.57	0.71	in	1.5	5	3	6 28309 24312 8
ZN	CMC14	5.66	2.57	mm	38	165	89	6 28309 10316 3
AL	CMC14AL	2.22	1.00					6 28309 19164 1
MG	CMC14M	1.83	0.83	in	1.5	6.5	3.5	6 28309 24313 5



EASY INSTALLATION UNDER-WATER: BOLT RETAINING WASHERS PREVENT THE ANODE FROM FALLING OFF

CHOOSE FROM TWO OF OUR STAINLESS STEEL HARDWARE OPTIONS:

Allen head w/lock washer & bolt retaining washer

Slotted head w/lock washer & bolt retaining washer

FULL SHAFT CONTACT: 100% CIRCULAR RADIUS

INTERLOCKING HALVES

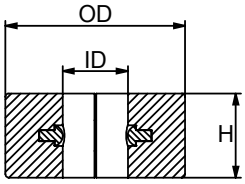
EXTRA ALLOY AROUND FASTENER

*Remember: **Zinc** - Salt water only, **Aluminum** - Salt and Brackish water, **Magnesium** - Fresh water only.*

LIMITED CLEARANCE SHAFT ANODES | IMPERIAL

	PID	LB	KG		H	OD	ID	UPC
ZN	CMC15	8.00	3.63	mm	38	165	101	6 28309 10317 0
AL	CMC15AL	3.14	1.42	in	1.5	6.5	4	6 28309 19165 8
MG	CMC15M	2.58	1.17					6 28309 24314 2

LIMITED CLEARANCE SHAFT ANODES | METRIC



	PID	LB	KG		H	OD	ID	UPC
ZN	CMC20	6.96	3.16	mm	25	54	20	6 28309 11533 3
AL	CMC20AL	2.73	1.24	in	1	2.12	0.75	6 28309 18987 7
MG	CMC20M	2.25	1.02					6 28309 18997 6
ZN	CMC25	0.68	0.31	mm	32	63	25	6 28309 11524 1
AL	CMC25AL	0.27	0.12	in	1.25	2.5	1	6 28309 18989 1
MG	CMC25M	0.22	0.10					6 28309 18999 0
ZN	CMC30	1.08	0.49	mm	32	63	30	6 28309 11525 8
AL	CMC30AL	0.42	0.19	in	1.25	2.5	1.18	6 28309 18988 4
MG	CMC30M	0.35	0.16					6 28309 18998 3
ZN	CMC35	1.21	0.55	mm	32	76	35	6 28309 11526 5
AL	CMC35AL	0.47	0.21	in	1.25	3	1.38	6 28309 19166 5
MG	CMC35M	0.39	0.18					6 28309 24315 9
ZN	CMC40	1.52	0.69	mm	32	76	40	6 28309 11527 2
AL	CMC40AL	0.60	0.27	in	1.25	3	1.57	6 28309 19167 2
MG	CMC40M	0.49	0.22					6 28309 21038 0
ZN	CMC45	2.69	1.22	mm	35	89	45	6 28309 11528 9
AL	CMC45A	1.05	0.48	in	1.37	3.5	1.77	6 28309 24192 6
MG	CMC45M	0.87	0.39					6 28309 24317 3
ZN	CMC50	2.69	1.22	mm	35	89	50	6 28309 11529 6
AL	CMC50A	1.05	0.48	in	1.37	3.5	2	6 28309 24193 3
MG	CMC50M	0.87	0.39					6 28309 24319 7
ZN	CMC55Z	3.12	1.42	mm	29	114	55	6 28309 23579 6
AL	CMC55A	1.23	0.56	in	1.14	4.49	2.17	6 28309 23577 2
MG	CMC55M	0.81	0.37					6 28309 23578 9
ZN	CMC60	3.22	1.46	mm	29	120	60	6 28309 12834 0
AL	CMC60A	1.26	0.57	in	1.14	4.72	2.36	6 28309 24194 0
MG	CMC60M	1.04	0.47					6 28309 24320 3
ZN	CMC65Z	3.43	1.56	mm	29	125	65	6 28309 23582 6
AL	CMC65A	1.36	0.62	in	1.14	4.92	2.56	6 28309 23580 2
MG	CMC65M	0.90	0.41					6 28309 23581 9
ZN	CMC70	3.66	1.66	mm	29	130	70	6 28309 12836 4
AL	CMC70A	1.44	0.65	in	1.14	5.12	2.76	6 28309 24197 1
MG	CMC70M	1.18	0.54					6 28309 24323 4
ZN	CMC75	3.83	1.74	mm	29	135	75	6 28309 12837 1
AL	CMC75A	1.50	0.68	in	1.14	5.31	2.95	6 28309 24198 8
MG	CMC75M	1.24	0.56					6 28309 24324 1

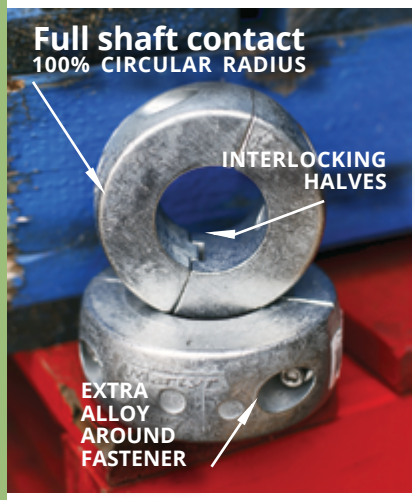
EASY INSTALLATION UNDER-WATER: BOLT RETAINING WASHERS PREVENT THE ANODE FROM FALLING OFF

CHOOSE FROM TWO OF OUR STAINLESS STEEL HARDWARE OPTIONS:

Allen head w/lock washer

& bolt retaining washer

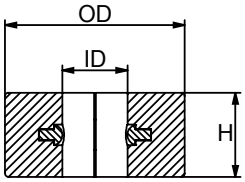
Slotted head w/lock washer
& bolt retaining washer



*Remember: **Zinc** - Salt water only, **Aluminum** - Salt and Brackish water, **Magnesium** - Fresh water only.*

LIMITED CLEARANCE SHAFT ANODES | METRIC

	PID	LB	KG		H	OD	ID	UPC
ZN	CMC80	3.99	1.81	mm	29	140	80	6 28309 12838 8
AL	CMC80A	1.56	0.71					6 28309 24199 5
MG	CMC80M	1.29	0.59	in	1.14	5.51	3.15	6 28309 24325 8
ZN	CMC85Z	6.12	2.78	mm	32	153	85	6 28309 23585 7
AL	CMC85A	2.40	1.09					6 28309 23583 3
MG	CMC85M	1.56	0.71	in	1.25	6	3.35	6 28309 23584 0
ZN	CMC90	8.81	4.00	mm	40	170	90	6 28309 12840 1
AL	CMC90A	3.45	1.56					6 28309 24200 8
MG	CMC90M	2.85	1.29	in	1.57	6.69	3.54	6 28309 24326 5
ZN	CMC95Z	8.27	3.76	mm	40	170	95	6 28309 23588 8
AL	CMC95A	3.24	1.47					6 28309 23586 4
MG	CMC95M	2.10	0.95	in	1.57	6.69	3.74	6 28309 23587 1
ZN	CMC100	9.47	4.30	mm	40	180	100	6 28309 12842 5
AL	CMC100A	3.71	1.68					6 28309 24190 2
MG	CMC100M	3.06	1.39	in	1.57	7.09	3.94	6 28309 24308 1
ZN	CMC120	14.32	6.50	mm	40	220	120	6 28309 12846 3
AL	CMC120A	5.62	2.55					6 28309 24191 9
MG	CMC120M	4.63	2.10	in	1.57	8.66	4.72	6 28309 24309 8

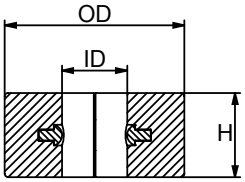


EURO STYLE LIMITED CLEARANCE SHAFT ANODES

	PID	LB	KG		H	OD	ID	UPC
ZN	CMC22EURO	0.49	0.22	mm	15.5	60	22	6 28309 16000 5
AL	CMC22EUROA	0.19	0.08					6 28309 19459 8
MG	CMC22EUROM	0.12	0.05	in	0.6	2.36	0.87	6 28309 21216 2
ZN	CMC25EURO	0.49	0.22	mm	15.5	60	25	6 28309 16001 2
AL	CMC25EUROA	0.19	0.08					6 28309 19460 4
MG	CMC25EUROM	0.12	0.05	in	0.6	2.36	1	6 28309 21217 9
ZN	CMC30EURO	0.49	0.22	mm	15.5	60	30	6 28309 16002 9
AL	CMC30EUROA	0.19	0.08					6 28309 19461 1
MG	CMC30EUROM	0.12	0.05	in	0.6	2.36	1.12	6 28309 21033 5
ZN	CMC35EURO	0.79	0.36	mm	18	74	35	6 28309 16003 6
AL	CMC35EUROA	0.31	0.14					6 28309 19462 8
MG	CMC35EUROM	0.20	0.09	in	0.7	3	1.37	6 28309 21035 9
ZN	CMC40EURO	0.70	0.32	mm	18	74	40	6 28309 16004 3
AL	CMC40EUROA	0.27	0.12					6 28309 19463 5
MG	CMC40EUROM	0.18	0.08	in	0.7	3	1.5	6 28309 21037 3
ZN	CMC45EURO	0.82	0.37	mm	18	82	45	6 28309 16005 0
AL	CMC45EUROA	0.32	0.15					6 28309 19464 2
MG	CMC45EUROM	0.20	0.09	in	0.7	3.25	1.75	6 28309 24316 6
ZN	CMC50EURO	0.70	0.32	mm	18	82	50	6 28309 16006 7
AL	CMC50EUROA	0.27	0.12					6 28309 19465 9
MG	CMC50EUROM	0.18	0.08	in	0.7	3.25	2.2	6 28309 24318 0

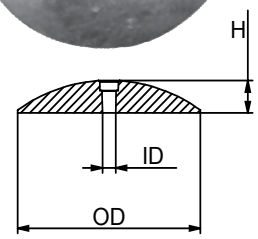
THIN EURO STYLE COLLAR ANODES:

EASY INSTALLATION UNDERWATER: BOLT RETAINING WASHERS PREVENT THE ANODE FROM FALLING OFF



Comes with allen head bolt w/lock washer & bolt retaining washer

*Remember: **Zinc** - Salt water only, **Aluminum** - Salt and Brackish water, **Magnesium** - Fresh water only.*



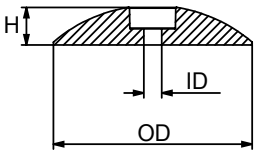
RUDDER ANODES ARE SOLD IN PAIRS, WITH STAINLESS STEEL BOLT AND NUT

EASY INSTALLATION UNDER-WATER: BOLT RETAINING WASHERS PREVENT THE ANODE FROM FALLING OFF

RUDDER/TRIM TAB ANODES

	PID	LB	KG		H	OD	ID	UPC
ZN	CMR01	0.28	0.13	mm	6	47	5	6 28309 10350 7
AL	CMR01AL	0.10	0.05					6 28309 12783 1
MG	CMR01M	0.07	0.03	in	0.35	1.87	0.2	6 28309 12787 9
ZN	CMR02	0.94	0.43	mm	12	71	7	6 28309 10352 1
AL	CMR02AL	0.34	0.16					6 28309 12784 8
MG	CMR02M	0.23	0.10	in	0.5	2.81	0.28	6 28309 11536 4
ZN	CMR03	1.60	0.73	mm	12	95	9	6 28309 10354 5
AL	CMR03AL	0.56	0.37					6 28309 12785 5
MG	CMR03M	0.39	0.18	in	0.5	3.75	0.34	6 28309 12788 6
ZN	CMR04	3.21	1.46	mm	16	127	9	6 28309 10355 2
AL	CMR04AL	1.13	0.51					6 28309 12786 2
MG	CMR04M	0.78	0.36	in	0.65	5	0.34	6 28309 12791 6
ZN	CMR05	4.70	2.14	mm	22	130	9	6 28309 10356 9
AL	CMR05AL	1.65	0.75					6 28309 18272 4
MG	CMR05M	1.14	0.52	in	0.87	5.12	0.37	6 28309 12792 3
ZN	CMR07	9.35	4.25	mm	22	175	8	6 28309 10357 6
AL	CMR07AL	3.64	1.66					6 28309 22976 4
MG	CMR07M	2.48	1.13	in	0.87	6.87	0.32	6 28309 23317 4

SOLD IN SINGLE HALF ONLY



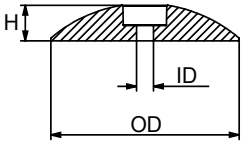
EURO STYLE RUDDER/TRIM TAB ANODES

	PID	LB	KG		H	OD	ID	UPC
ZN	CMF50Z	0.17	0.08	mm	11	50	7	6 28309 17468 2
AL	CMF50A	0.06	0.03					6 28309 19263 1
MG	CMF50M	0.04	0.02	in	0.41	2	0.26	6 28309 21190 5
ZN	CMF70Z	0.40	0.18	mm	13	70	9	6 28309 17470 5
AL	CMF70A	0.14	0.06					6 28309 19264 8
MG	CMF70M	0.09	0.04	in	0.5	2.75	0.35	6 28309 21191 2
ZN	CMF90Z	0.91	0.42	mm	17	90	9	6 28309 17472 9
AL	CMF90A	0.32	0.15					6 28309 19265 5
MG	CMF90M	0.21	0.10	in	0.66	3.5	0.35	6 28309 21192 9
ZN	CMF110Z	1.44	0.65	mm	19	110	11	6 28309 17462 0
AL	CMF110A	0.51	0.23					6 28309 19261 7
MG	CMF110M	0.34	0.15	in	0.75	4.33	0.42	6 28309 21189 9
ZN	CMF120Z	1.87	0.85	mm	20	120	11	6 28309 24124 7
AL	CMF120A	0.66	0.30					6 28309 24204 6
MG	CMF120M	0.43	0.20	in	0.79	4.72	0.43	6 28309 24330 2
ZN	CMF125Z	2.10	0.95	mm	21	125	11	6 28309 17464 4
AL	CMF125A	0.74	0.34					6 28309 19262 4
MG	CMF125M	0.49	0.22	in	0.83	5	0.45	6 28309 23234 4
ZN	CMF128Z	2.16	0.98	mm	22	128	12	6 28309 24125 4
AL	CMF128A	0.77	0.35					6 28309 24205 3
MG	CMF128M	0.50	0.23	in	0.87	5.04	0.47	6 28309 24331 9

*Remember: **Zinc** - Salt water only, **Aluminum** - Salt and Brackish water, **Magnesium** - Fresh water only.*

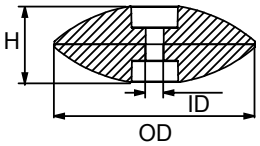
EURO STYLE RUDDER/TRIM TAB ANODES

	PID	LB	KG		H	OD	ID	UPC
ZN	CMF140Z	3.26	**1.48**	mm	**26**	**140**	**13**	6 28309 17466 8
AL	CMF140A	1.15	**0.52**					6 28309 21030 4
MG	CMF140M	0.77	**0.35**	in	1	5.5	0.5	6 28309 23235 1
ZN	CMF190Z	5.48	**2.49**	mm	**29**	**190**	**13**	6 28309 24127 8
AL	CMF190A	1.94	**0.88**					6 28309 24206 0
MG	CMF190M	1.29	**0.55**	in	1.14	7.5	0.5	6 28309 24332 6



NEW

	PID	LB	KG		H	OD	ID	UPC
ZN	CMF50CZ	0.34	**0.16**	mm	**22**	**50**	**7**	6 28309 24658 7
AL	CMF50CA	0.12	**0.06**	in	0.82	2	0.26	6 28309 24672 3
ZN	CMF70CZ	0.80	**0.36**	mm	**26**	**70**	**9**	6 28309 24659 4
AL	CMF70CA	0.28	**0.12**	in	1.02	2 ¾	0.35	6 28309 24673 0
ZN	CMF90CZ	1.82	**0.84**	mm	**34**	**90**	**9**	6 28309 24660 0
AL	CMF90CA	0.64	**0.3**	in	1.33	3 ½	0.35	6 28309 24674 7
ZN	CMF110CZ	2.88	**1.3**	mm	**38**	**110**	**11**	6 28309 24679 2
AL	CMF110CA	1.02	**0.3**	in	1.5	4 ⅓	0.42	6 28309 26004 0
ZN	CMF125CZ	4.2	**1.9**	mm	**42**	**125**	**11**	6 28309 24654 9
AL	CMF125CA	1.48	**0.68**	in	1.66	5	0.45	6 28309 24666 2
ZN	CMF140CZ	6.52	**2.96**	mm	**52**	**140**	**13**	6 28309 25981 5
AL	CMF140CA	2.3	**1.04**	in	2	5 ½	0.5	6 28309 26005 7



Sold as two halves, assembled with a zip tie

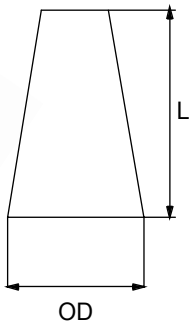
*Remember: **Zinc** - Salt water only, **Aluminum** - Salt and Brackish water, **Magnesium** - Fresh water only.*

PLEASURECRAFT

PROPELLER ANODES

PROPELLER NUT ANODES | incl. insert & hardware

PROP NUT COMPLETE



	TYPE	PID	LB	KG		SHAFT	L	OD	THREAD	FASTENER	UPC
ZN	A	**CMPNAZC13**	**0.46**	0.21	mm	19	38	32	½"-13 UNC	¼-20 x ½	6 28309 10824 3
AL		**CMPNAAC13**	**0.34**	0.15							6 28309 12078 8
MG		**CMPNAMC13**	**0.32**	0.15	**in**	**0.75**	**1.5**	**1.25**			6 28309 11511 1
ZN	B	**CMPNBZC11**	**0.76**	0.34	mm	22	54	41	⅝"-11 UNC	¼-20 x ½	6 28309 10828 1
AL		**CMPNBAC11**	**0.46**	0.21							6 28309 12349 9
MG		**CMPNBMC11**	**0.39**	0.18	**in**	**0.87**	**2.12**	**1.65**			6 28309 11342 1
ZN	C	**CMPNCZC10**	**1.38**	0.63	mm	25	76	48	¾"-10 UNC	5/16-18 x 1	6 28309 10831 1
AL		**CMPNCAC10**	**0.78**	0.35							6 28309 12211 9
MG		**CMPNCMC10**	**0.65**	0.30	**in**	**1**	**3**	**2**			6 28309 11344 5
ZN	C	**CMPNCZF16**	**1.38**	0.63	mm	29	76	48	¾"-16 UNF	5/16-18 x 1	6 28309 10832 8
AL		**CMPNCAF16**	**0.78**	0.35							6 28309 12373 4
MG		**CMPNCMF16**	**0.65**	0.30	**in**	**1.12**	**3**	**2**			6 28309 11345 2
ZN	D	**CMPNDZC09**	**2.2**	1	mm	32	78	54	⅞"-9 UNC	5/16-18 x 1	6 28309 10835 9
AL		**CMPNDAC09**	**1.33**	0.6							6 28309 12212 6
MG		**CMPNDMC09**	**1.11**	0.5	**in**	**1.25**	**3.06**	**2.3**			6 28309 11347 6
ZN	D	**CMPNDZF14**	**2.2**	1	mm	32	78	54	⅞"-14 UNF	5/16-18 x 1	6 28309 10836 6
AL		**CMPNDAF14**	**1.33**	0.6							6 28309 12606 3
MG		**CMPNDMF14**	**1.11**	0.5	**in**	**1.25**	**3.06**	**2.3**			6 28309 12033 7
ZN	E	**CMPNEZC08**	**2.5**	1.14	mm	35	89	60	1"-8 UNC	5/16-18 x 1	6 28309 10838 0
AL		**CMPNEAC08**	**1.43**	0.65							6 28309 12213 3
MG		**CMPNEMC08**	**1.2**	0.54	**in**	**1.37**	**3 ½**	**2.5**			6 28309 11348 3
ZN	E	**CMPNEZF14**	**2.5**	1.14	mm	35	89	60	1"-14 UNF	5/16-18 x 1	6 28309 11510 4
AL		**CMPNEAF14**	**1.43**	0.65							6 28309 12566 0
MG		**CMPNEMF14**	**1.2**	0.54	**in**	**1.37**	**3.5**	**2.5**			6 28309 12054 2
ZN	F	**CMPNFZC07**	**3**	1.36	mm	38	89	65	1 ⅛"-7 UNC	5/16-18 x 1	6 28309 10839 7
AL		**CMPNFAC07**	**1.75**	0.79							6 28309 12214 0
MG		**CMPNFMC07**	**1.52**	0.69	**in**	**1.5**	**3.5**	**2.76**			6 28309 11555 5
ZN	G	**CMPNGZC07**	**4.4**	2	mm	45	92	73	1 ¼"-7 UNC	⅜-16 x ⅞	6 28309 10840 3
AL		**CMPNGAC07**	**2.59**	1.18							6 28309 12215 7
MG		**CMPNGMC07**	**2.25**	1.02	**in**	**1.75**	**3.62**	**3.12**			6 28309 11556 2
ZN	H	**CMPNHZC06**	**5.25**	2.39	mm	51	102	83	1 ½"-6 UNC	⅜-16 x ⅞	6 28309 10841 0
AL		**CMPNHAC06**	**3.22**	1.48							6 28309 12395 6
MG		**CMPNHMC06**	**2.81**	1.28	**in**	**2**	**4**	**3.34**			6 28309 11557 9

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REPLACEMENT PROPELLER NUT ANODES

IMPORTANT
PROP NUT FASTENERS:

FASTENERS ARE INCLUDED WITH ALL REPLACEMENT PROP NUTS.

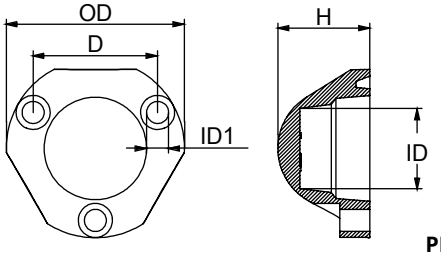
NYLON PATCH IS GOOD FOR ONE INITIAL APPLICATION ONLY.

PLEASE USE LOCK TITE OR TEFLON TAPE TO ENSURE MAXIMUM HOLD.

	TYPE	PID	LB	KG		L	OD	UPC
ZN	A	CMPNZA	0.20	0.09	mm	38	32	6 28309 10871 7
AL		CMPNAA	0.08	0.03				6 28309 11813 6
MG		CMPNMA	0.06	0.03	in	1.5	1.25	6 28309 11357 5
ZN	B	CMPNZB	0.50	0.23	mm	52	42	6 28309 10872 4
AL		CMPNAB	0.20	0.09				6 28309 11814 3
MG		CMPNMB	0.13	0.06	in	2.05	1.65	6 28309 11358 2
ZN	C	CMPNZC	1.00	0.45	mm	67	51	6 28309 10873 1
AL		CMPNAC	0.40	0.19				6 28309 11815 0
MG		CMPNMC	0.27	0.12	in	2.64	2	6 28309 11359 9
ZN	D	CMPNZD	1.50	0.68	mm	75	58	6 28309 10874 8
AL		CMPNAD	0.63	0.29				6 28309 11816 7
MG		CMPNMD	0.41	0.19	in	2.95	2.3	6 28309 11360 5
ZN	E	CMPNZE	1.75	0.31	mm	79	64	6 28309 10875 5
AL		CMPNAE	0.68	0.31				6 28309 11532 6
MG		CMPNME	0.45	0.20	in	3.13	2.5	6 28309 11361 2
ZN	F	CMPNZF	2.00	0.91	mm	84	70	6 28309 10876 2
AL		CMPNAF	0.75	0.34				6 28309 11817 4
MG		CMPNMF	0.52	0.24	in	3.32	2.75	6 28309 11362 9
ZN	G	CMPNZG	2.91	1.32	mm	89	79	6 28309 10877 9
AL		CMPNAG	1.09	0.49				6 28309 12216 4
MG		CMPNMG	0.75	0.34	in	3.5	3.13	6 28309 11363 6
ZN	H	CMPNZH	3.25	1.48	mm	98	85	6 28309 10878 6
AL		CMPNAH	1.22	0.55				6 28309 12217 1
MG		CMPNMH	0.81	0.37	in	3.84	3.34	6 28309 11364 3

AUTOPROP ANODES

	PID	LB	KG		H	OD	ID	UPC
ZN	CMPNH5Z	0.33	0.15	mm	33	57	7	6 28309 17089 9
AL	CMPNH5A	0.13	0.06					6 28309 24242 8
MG	CMPNH5M	0.08	0.04	in	1.3	2.24	0.27	6 28309 24364 7
ZN	CMPNH6Z	0.80	0.37	mm	46	74	9	6 28309 17090 5
AL	CMPNH6A	0.32	0.15					6 28309 24243 5
MG	CMPNH6M	0.20	0.09	in	1.81	2.91	0.35	6 28309 24365 4



NEW

	PID	LB	KG		OD	H	D	ID	ID1	UPC
ZN	CMPNH9Z	1.104	0.501	mm	89	46	62.18	40	11	6 28309 25519 0
AL	CMPNH9A	0.423	0.192							6 28309 25524 4
MG	CMPNH9M	2.473	0.122	in	3.50	1.81	2.45	1.57	0.43	6 28309 25529 9

Autoprop 3-Blade Propeller H9

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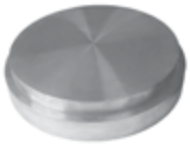
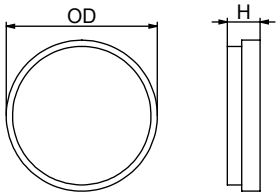
AZIMUT BENETTI™ ANODES

	PID	LB	KG		H	OD	UPC
ZN	CMOU687Z	33.1	**15**	mm	52	240	6 28309 24140 7



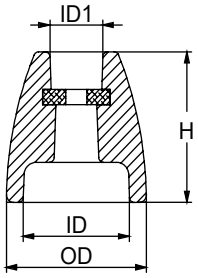


BRP™ (EVINRUDE JOHNSON) PROPELLER ANODES

	PID	LB	KG		OD	ID	ID1	H	UPC
ZN	CM5009138Z	1.28	0.58	mm	58	8.5	17	60	6 28309 25517 6
AL	CM5009138A	0.5	0.23						6 28309 25522 0
MG	CM5009138M	0.33	0.15	in	**2.28**	**0.33**	**0.67**	**2.36**	6 28309 25527 5

BRP Propeller Shaft Anode

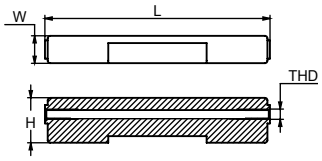
NEW



NEW

	PID	LB	KG		L	W	H	THD	UPC
ZN	CM5008813Z	**1.83**	0.83	mm	174	36	20	5/16-18 UNC	6 28309 25534 3
AL	CM5008813A	**0.71**	0.32						6 28309 25539 8
MG	CM5008813M	**0.46**	0.21	in	**6.86**	**1.4**	**0.8**		6 28309 25544 2

BRP Stern Bracket Anode



BENETEAU™ ANODES | incl. insert & hardware

	Prop Nut Complete	PID	LB	KG	THD	Fastener countersink socket head w/pitch	UPC
ZN	22/25 mm	CMLAEC3250Z	0.63	0.28	M16 x1.5	M6 x 20 SS	6 28309 11315 5
AL		CMLAEC3250A	0.25	0.11			6 28309 24214 5
MG		CMLAEC3250M	0.16	0.07			6 28309 24343 2
ZN	30mm	CMLAEC3300Z	1.19	0.54	M20 x 1.5	M8 x 30 SS	6 28309 11316 2
AL		CMLAEC3300A	0.47	0.21			6 28309 24215 2
MG		CMLAEC3300M	0.30	0.14			6 28309 24344 9
ZN	35mm	CMLAEC3500Z	1.44	0.65	M24 x 2	M8 x 30 SS	6 28309 11317 9
AL		CMLAEC3500A	0.56	0.25			6 28309 24216 9
MG		CMLAEC3500M	0.36	0.16			6 28309 24345 6
ZN	40mm	CMLAEC4000Z	2.13	0.97	M24 x 2	M8 x 30 SS	6 28309 11318 6
AL		CMLAEC4000A	0.84	0.38			6 28309 24217 6
MG		CMLAEC4000M	0.53	0.24			6 28309 24346 3
ZN	45mm	CMLAEC4500Z	2.20	1.00	M30 x 2	M10 x 30 SS	6 28309 11319 3
AL		CMLAEC4500A	0.86	0.39			6 28309 24218 3
MG		CMLAEC4500M	0.55	0.25			6 28309 24347 0
ZN	45mm	CMLAEC4500EUZ	3.13	1.42	M33 x 2	M10 x 25 SS	6 28309 21143 1
AL		CMLAEC4500EUA	2.18	0.99			6 28309 21165 3
MG		CMLAEC4500EUM	1.94	0.88			6 28309 21193 6
ZN	50mm	CMLAEC5000Z	5.20	2.36	M36 x 3	M10 x 30 SS	6 28309 18203 8
AL		CMLAEC5000A	3.53	1.60			6 28309 19266 2
MG		CMLAEC5000M	3.15	1.43			6 28309 19305 8
ZN	55mm	CMLAEC5500Z	5.50	2.50	M40 x 3	M10 x 30 SS	6 28309 18204 5
AL		CMLAEC5500A	4.10	1.85			6 28309 19267 9
MG		CMLAEC5500M	3.70	1.68			6 28309 19306 5
ZN	60mm	CMLAEC6000Z	8.20	3.72	M45 x 3	M10 x 30 SS	6 28309 18205 2
AL		CMLAEC6000A	6.00	2.71			6 28309 19268 6
MG		CMLAEC6000M	5.40	2.45			6 28309 19307 2
ZN	100mm	CMLAEC10000Z	13.74	6.25	M50 x 3	M10 x 30 SS	6 28309 23712 7
AL		CMLAEC10000A	10.15	4.61			6 28309 23713 4
MG		CMLAEC10000M	9.42	4.28			6 28309 23714 1
ZN	110mm	CMLAEC11000Z	Contact us for more information		M64 x 4	--	6 28309 23715 8
AL		CMLAEC11000A					6 28309 23716 5
MG		CMLAEC11000M					6 28309 23717 2

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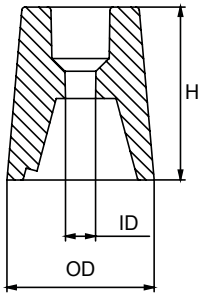
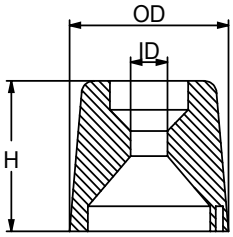
BENETEAU™ REPLACEMENT ANODES

	Prop Nut Replace	PID	LB	KG		H	OD	ID	UPC
ZN	22/ 25mm	CMAN225Z	031	0.14	mm	39	34	7	6 28309 11308 7
AL		CMAN225A	0.12	0.05					6 28309 19168 9
MG		CMAN225M	0.08	0.04	in	1.55	1.32	0.27	6 28309 19324 9
ZN	30mm	CMAN230Z	0.62	0.28	mm	54	42	8	6 28309 11309 4
AL		CMAN230A	0.24	0.11					6 28309 19169 6
MG		CMAN230M	0.16	0.07	in	2.11	1.65	0.32	6 28309 19325 6
ZN	35mm	CMAN235Z	0.55	0.25	mm	58	46	8	6 28309 11310 0
AL		CMAN235A	0.22	0.10					6 28309 19170 2
MG		CMAN235M	0.14	0.06	in	2.28	1.81	0.32	6 28309 19326 3
ZN	40mm	CMAN240Z	1.08	0.49	mm	67	51	8	6 28309 11311 7
AL		CMAN240A	0.42	0.19					6 28309 19171 9
MG		CMAN240M	0.27	0.12	in	2.62	2.02	0.32	6 28309 19327 0
ZN	45mm	CMAN245Z	1.70	0.77	mm	76	61	10	6 28309 11312 4
AL		CMAN245A	0.67	0.30					6 28309 19172 6
MG		CMAN245M	0.43	0.20	in	2.99	2.4	0.41	6 28309 19328 7
ZN	70mm	CMANCHN700Z	5.50	2.50	mm	100	83	9	6 28309 12535 6
AL		CMANCHN700A	2.16	0.98					6 28309 12536 3
MG		CMANCHN700M	1.38	0.63	in	3.94	3.27	0.35	6 28309 24298 5
ZN	45mm	CMAN245EUZ	1.61	0.73	mm	74	59	11	6 28309 21140 0
AL		CMAN245EUA	0.66	0.30					6 28309 21164 6
MG		CMAN245EUM	0.42	0.19	in	2.9	2.3	0.4	6 28309 21188 2
ZN	50mm	CMAN250Z	2.49	1.13	mm	84	71	12	6 28309 18004 1
AL		CMAN250A	1.01	0.46					6 28309 19329 4
MG		CMAN250M	0.64	0.29	in	3.3	2.8	0.5	6 28309 19330 0
ZN	55mm	CMAN255Z	2.47	1.12	mm	84	72	11	6 28309 18005 8
AL		CMAN255A	0.99	0.45					6 28309 19331 7
MG		CMAN255M	0.62	0.28	in	3.3	2.8	0.4	6 28309 19332 4
ZN	60mm	CMAN260Z	3.88	1.76	mm	96	81	11	6 28309 18006 5
AL		CMAN260A	1.57	0.71					6 28309 19333 1
MG		CMAN260M	0.99	0.45	in	3.8	3.2	0.4	6 28309 19334 8

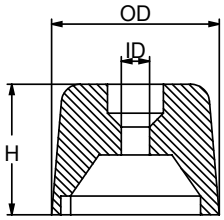


*Remember: **Zinc** - Salt water only, **Aluminum** - Salt and Brackish water, **Magnesium** - Fresh water only.*

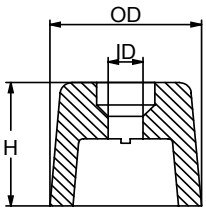
FERRETTI™ ANODES

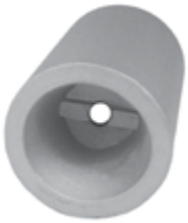


	PID	LB	KG		OD	ID	H	UPC
ZN	CMFE1Z	1.30	0.59	mm	50	10	65	6 28309 23636 6
				in	2	0.38	2.6	

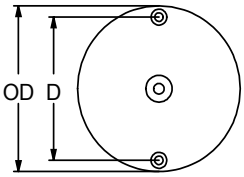


	PID	LB	KG		H	OD	ID	UPC
ZN	CMFE2Z	2.56	1.16	mm	90	59	10	6 28309 23639 7
				in	3.5	2.3	0.38	





	PID	LB	KG		H	OD	ID	UPC
ZN	CMFE3Z	1.32	0.60	mm	65	50	7	6 28309 23642 7
				in	2.6	2	0.28	



	PID	LB	KG		H	OD	UPC
ZN	CMFE80Z	28.7	13	mm	125	155	6 28309 23651 9
				in	4.9	6.1	

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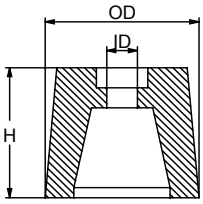
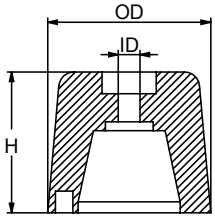
FERRETTI™ ANODES

	PID	LB	KG		H	OD	ID	UPC
ZN	CMFE4Z	2.12	0.96	mm	75	60	10	6 28309 23645 8
				in	2.9	2.4	0.4	

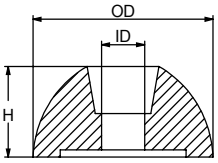


	PID	LB	KG		H	OD	ID	UPC
ZN	CMFE5Z	4.14	1.88	mm	95	74	13	6 28309 23648 9
				in	3.7	2.9	0.52	



FLEXOFOLD™ ANODES

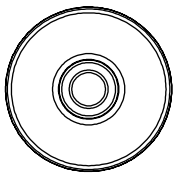
	PID	LB	KG		OD	ID	H	UPC
ZN	CMPNFXZ	1.00	0.46	mm	67	8	38	6 28309 17088 2
AL	CMPNFXA	0.40	0.19					6 28309 17572 6
MG	CMPNFXM	0.25	0.11	in	2.6	0.33	1.5	6 28309 17621 1

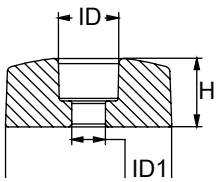


	PID	LB	KG		OD	H	ID	ID1	UPC
ZN	CMPNFF2Z	0.123	0.056	mm	31.7	13.3	11.25	6.4	6 28309 25184 0
AL	CMPNFF2A	0.046	0.021						6 28309 25185 7
MG	CMPNFF2M	0.030	0.014	in	1.25	0.52	0.44	0.25	6 28309 25186 4

Flex-O-Fold 2-Blade Propeller Anode

NEW





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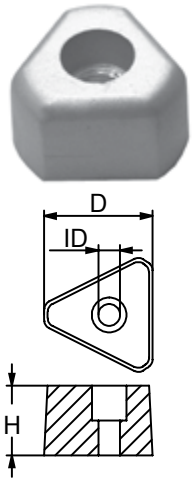
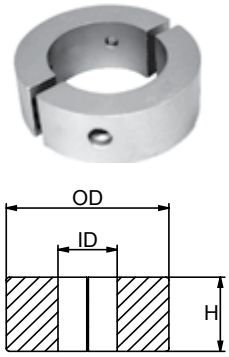


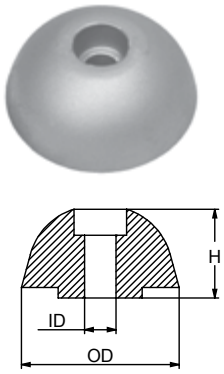
GORI™ ANODES

	PID	LB	KG		D	ID	H	UPC
ZN	CM14072100Z	0.08	0.04	mm	24	8	16	6 28309 23038 8
				in	0.9	0.33	0.6	
ZN	CM14073100Z	0.11	0.05	mm	25	7	16	6 28309 23039 5
				in	1	0.26	0.6	
ZN	CM14074100Z	0.20	0.09	mm	31	7	20	6 28309 23040 1
				in	1.2	0.26	0.8	
ZN	CM14074511Z	0.57	0.26	mm	40	7	33	6 28309 23041 8
				in	1.6	0.26	1.3	

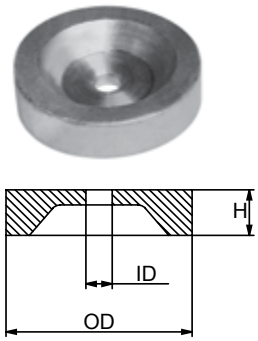


	PID	LB	KG		D	ID	H	UPC
ZN	CM15539500Z (3-BLADE SAILDRIVE)	2.09	0.95	mm	95	60	34	6 28309 23045 6
				in	3.7	2.4	1.3	
ZN	CM15540000Z (3-BLADE SHAFT)	2.95	1.34	mm	95	63	47	6 28309 23046 3
				in	3.7	2.5	1.8	
ZN	CM15530000Z (3-BLADE SHAFT)	1.90	0.86	mm	83	53	40	6 28309 23044 9
				in	3.3	2.1	1.6	
ZN	CM15500000Z (3-BLADE SHAFT)	4.65	2.11	mm	127	90	50	6 28309 23042 5
				in	5	3.5	2	
ZN	CM15670000Z	1.28	0.58	mm	97	80	40	6 28309 23047 0
				in	3.8	3.1	1.6	
ZN	CM15527500Z (3-BLADE SAILDRIVE)	0.75	0.34	mm	80	55	23	6 28309 23043 2
				in	3.2	2.2	0.9	

J-PROP™ ANODES



	PID	LB	KG		OD	ID	H	UPC
ZN	CMJPROP60Z	0.71	0.32	mm	60	9	25	6 28309 20948 3
AL	CMJPROP60A	0.26	0.12					6 28309 20969 8
MG	CMJPROP60M	0.18	0.08	in	2.4	0.34	1	6 28309 20990 2
ZN	CMJPROP80Z	1.63	0.74	mm	80	10	33	6 28309 23678 6
				in	3.1	0.4	1.3	
ZN	CMJPROP90Z	2.34	1.06	mm	90	10	37	6 28309 23681 6
				in	3.5	0.4	1.5	



	PID	LB	KG		OD	ID	H	UPC
ZN	CMJP60Z	0.50	0.22	mm	60	9	15	6 28309 24135 3
				in	2.4	0.3	0.6	

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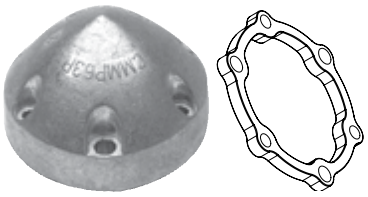
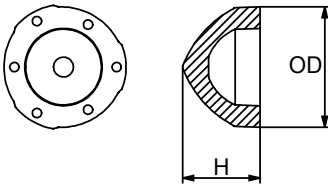
MAX PROP™ ANODES

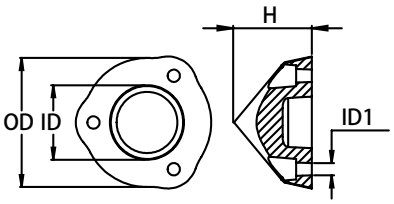
	PID	LB	KG		OD	H	Fas-tener	UPC
ZN	CMMP63RZ	0.64	0.29	mm	61	38	M5 x 20	6 28309 10738 3
AL	CMMP63RA	0.25	0.11					6 28309 17062 2
MG	CMMP63RM	0.16	0.07	in	2.4	1.5		6 28309 17053 0
ZN	CMMP70RZ	1.14	0.52	mm	68	43	M4 x 20	6 28309 10739 0
AL	CMMP70RA	0.45	0.20					6 28309 17063 9
MG	CMMP70RM	0.29	0.13	in	2.63	1.75		6 28309 17054 7
ZN	CMMP83RZ	1.65	0.75	mm	79	57	M5 x 20	6 28309 10740 6
AL	CMMP83RA	0.65	0.29					6 28309 17064 6
MG	CMMP83RM	0.41	0.19	in	3.13	2.25		6 28309 17055 4



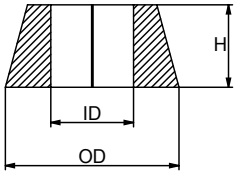
(COMES WITH INSERT - NEW DESIGN)



	PID	LB	KG		OD	H	Fas-tener	UPC
ZN	CMMP63MZ	0.60	0.30	mm	65	40	M5 x 20SS	6 28309 23729 5
				in	2.56	1.57		
ZN	CMMP70MZ	0.84	0.38	mm	72	45		6 28309 23735 6
				in	2.83	1.77		
ZN	CMMP83MZ	1.74	0.79	mm	85	65	M6 x 25SS	6 28309 23741 7
				in	3.45	2.56		
ZN	CMMP100MZ	2.14	0.97	mm	100	70		6 28309 23052 4
				in	3.94	2.76		
ZN	CMMP125MZ	6.11	2.77	mm	130	80	--	6 28309 23720 2
				in	5.12	3.15		



	PID	LB	KG		OD	ID	H	UPC
ZN	CMMP70SDZ	1.55	0.71	mm	93	42	28	6 28309 23738 7
				in	3.7	1.6	1.1	
ZN	CMMP83SDZ	1.44	0.65	mm	93	46	28	6 28309 23744 8
				in	3.7	1.8	1.1	



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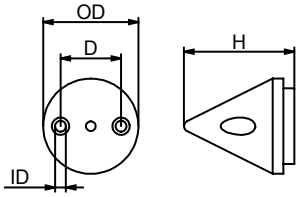
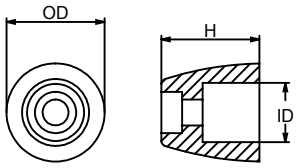


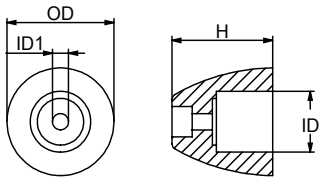
MAX PROP™ ANODES

	PID	LB	KG		OD	D	ID	H	UPC
ZN	CMMP63M2BZ	0.46	0.21	mm	44	28	4	51	6 28309 23726 4
				in	1.7	1.1	0.17	2	

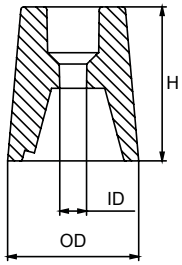


MTF™ ANODES

	PID	LB	KG		OD	ID	H	UPC
ZN	CMMTF1Z	0.26	0.12	mm	38	27	38	6 28309 23747 9
				in	1.5	1	1.5	



	PID	LB	KG		OD	ID	ID1	H	UPC
ZN	CMMTF2Z	0.74	0.34	mm	53	35	7	50	6 28309 23750 9
				in	2.1	1.4	0.26	2	
ZN	CMMTF3Z	1.66	0.75	mm	65	45	7	77	6 28309 23753 0
				in	2.6	1.8	0.28	3	



RADICE™ ANODES

	PID	LB	KG		OD	ID	H	THD	Fastener	UPC
ZN	CMLAEC3250EUZ	0.61	0.28	mm	33	7	39	M16 x 1.5	M6 x 16SS	6 28309 21490 6
AL	CMLAEC3250EUA	0.45	0.21							6 28309 21488 3
MG	CMLAEC3250EUM	0.41	0.19	in	1.28	0.27	1.54			6 28309 21489 0
ZN	CMLAEC3300EUZ	1.31	0.59	mm	44	9	52	M20 x 1.5	M8 x 25SS	6 28309 21493 7
AL	CMLAEC3300EUA	0.87	0.40							6 28309 21491 3
MG	CMLAEC3300EUM	0.77	0.35	in	1.73	0.35	2.05			6 28309 21492 0
ZN	CMLAEC3500EUZ	1.41	0.64	mm	44	9	52	M24 x 2	M8 x 25SS	6 28309 21496 8
AL	CMLAEC3500EUA	1.05	0.48							6 28309 21494 4
MG	CMLAEC3500EUM	0.96	0.44	in	1.73	0.35	2.05			6 28309 21495 1
ZN	CMLAEC4000EUZ	2.17	0.99	mm	50	9	65	M24 x 2	M8 x 25SS	6 28309 21499 9
AL	CMLAEC4000EUA	1.54	0.70							6 28309 21497 5
MG	CMLAEC4000EUM	1.39	0.63	in	1.97	0.35	2.56			6 28309 21498 2
ZN	CMLAEC4500EUZ	1.57	0.73	mm	50	10	74	M32 x 2	M10 x 30SS	6 28309 21143 1
AL	CMLAEC4500EUA	0.66	0.30							6 28309 21165 3
MG	CMLAEC4500EUM	0.42	0.19	in	2.32	0.39	2.91			6 28309 21193 6

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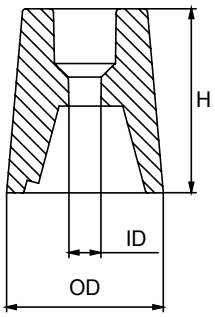
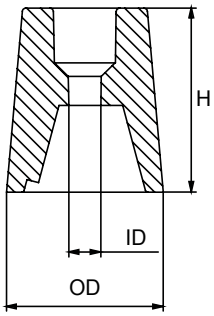
RADICE™ ANODES

	PID	LB	KG		OD	H	THD	Fastener	UPC
ZN	CMLAEC5000Z	5.20	2.36	mm	71	113	M36 X2	M10 X30	6 28309 18203 8
AL	CMLAEC5000A	3.53	1.60						6 28309 19266 2
MG	CMLAEC5000M	3.15	1.43	in	2.80	4.45			6 28309 19305 8
ZN	CMLAEC5500Z	5.50	2.50	mm	72	127	M40 X3	M10 X30	6 28309 18204 5
AL	CMLAEC5500A	4.10	1.85						6 28309 19267 9
MG	CMLAEC5500M	3.70	1.68	in	2.80	5.00			6 28309 19306 5
ZN	CMLAEC6000Z	8.20	3.72	mm	81	139	M45 X3	M10 X30	6 28309 18205 2
AL	CMLAEC6000A	6.00	2.71						6 28309 19268 6
MG	CMLAEC6000M	5.40	2.45	in	3.19	5.47			6 28309 19307 2
ZN	CMLAEC10000Z	12.45	5.64	mm	98	98	M50 X3	M10 X30	6 28309 23712 7
AL	CMLAEC10000A	9.11	4.13						6 28309 23713 4
MG	CMLAEC10000M	8.20	3.72	in	3.86	3.86			6 28309 23714 1
ZN	CMLAEC11000Z	Contact us for more information		mm	160	134	M64 X4	--	6 28309 23715 8
AL	CMLAEC11000A								6 28309 23716 5
MG	CMLAEC11000M			in	6.30	5.28			6 28309 23717 2



RADICE™ REPLACEMENT ANODES

	PID	LB	KG		OD	ID	H	UPC
ZN	CMAN225EUZ	0.26	0.12	mm	33	7	39	6 28309 20944 5
AL	CMAN225EUA	0.11	0.05					6 28309 20965 0
MG	CMAN225EUM	0.07	0.03	in	1.28	0.27	1.54	6 28309 20986 5
ZN	CMAN230EUZ	0.72	0.33	mm	44	9	52	6 28309 20945 2
AL	CMAN230EUA	0.28	0.13					6 28309 20966 7
MG	CMAN230EUM	0.18	0.08	in	1.73	0.35	2.05	6 28309 20987 2
ZN	CMAN235EUZ	0.61	0.28	mm	44	9	52	6 28309 20946 9
AL	CMAN235EUA	0.24	0.11					6 28309 20967 4
MG	CMAN235EUM	0.15	0.07	in	1.73	0.35	2.05	6 28309 20988 9
ZN	CMAN240EUZ	1.03	0.47	mm	50	9	65	6 28309 20947 6
AL	CMAN240EUA	0.41	0.19					6 28309 20968 1
MG	CMAN240EUM	0.26	0.12	in	1.97	0.35	2.56	6 28309 20989 6
ZN	CMAN245EUZ	1.61	0.73	mm	59	48	74	6 28309 21140 0
AL	CMAN245EUA	0.66	0.30					6 28309 21164 6
MG	CMAN245EUM	0.42	0.19	in	2.32	1.89	2.91	6 28309 21188 2
ZN	CMAN250Z	2.49	1.13	mm	71	12	84	6 28309 18004 1
AL	CMAN250A	1.01	0.46					6 28309 19329 4
MG	CMAN250M	0.64	0.29	in	2.8	0.5	3.3	6 28309 19330 0
ZN	CMAN255Z	2.47	1.12	mm	72	11	84	6 28309 18005 8
AL	CMAN255A	0.99	0.45					6 28309 19331 7
MG	CMAN255M	0.62	0.28	in	2.8	0.4	3.3	6 28309 19332 4
ZN	CMAN260Z	3.88	1.76	mm	81	11	96	6 28309 18006 5
AL	CMAN260A	1.57	0.71					6 28309 19333 1
MG	CMAN260M	0.99	0.45	in	3.2	0.4	3.8	6 28309 19334 8



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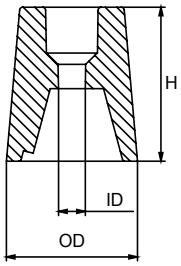
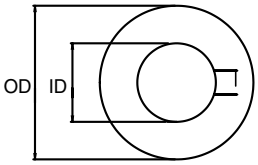


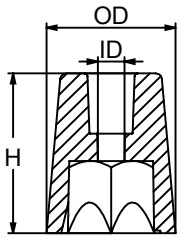
RADICE™ REPLACEMENT ANODES

	PID	LB	KG		OD	ID	H	UPC
ZN	CMAN2100Z	4.99	2.26	mm	98	85	98	6 28309 23050 0
AL	CMAN2100A	1.95	0.89					6 28309 23066 1
MG	CMAN2100M	1.22	0.55	in	3.86	3.33	3.86	6 28309 23082 1
ZN	CMAN2110Z	16.9	7.65	mm	160	130	134	6 28309 23546 8
AL	CMAN2110A	6.60	3.00					6 28309 23544 4
MG	CMAN2110M	4.12	1.87	in	6.30	5.12	5.28	6 28309 23545 1



RADICE™ WASHER

PID	LB	KG		OD	ID	Shaft	UPC
WASHRAD2225C	0.01	0.005	mm	38	17	25	6 28309 20914 8
			in	1.50	0.67		
WASHRAD30C	0.02	0.01	mm	46	20	30	6 28309 20915 5
			in	1.81	0.79		
WASHRAD35C	0.02	0.01	mm	51	24	35	6 28309 20916 2
			in	2.00	0.94		
WASHRAD40C	0.03	0.02	mm	54	24	40	6 28309 20917 9
			in	2.12	0.94		
WASHRAD45C	0.04	0.02	mm	66	33	45	6 28309 20918 6
			in	2.60	1.30		
WASHRAD50C	0.06	0.03	mm	76	36	50	6 28309 20919 3
			in	3.00	1.42		
WASHRAD55C	0.07	0.03	mm	81	40	55	6 28309 20920 9
			in	3.20	1.57		
WASHRAD60C	0.08	0.04	mm	90	46	60	6 28309 20921 6
			in	3.54	1.81		
WASHRAD100C	0.11	0.05	mm	104	52	100	6 28309 24698 3
			in	4.09	2.05		



RADICE™ ANODES | HEXAGONAL

	PID	LB	KG		OD	ID	H	THD	Fastener	UPC
ZN	CMPNRAD225CZ	0.66	0.30	mm	33	7	40	M16 x 1.5	M6 X 20	6 28309 16018 0
AL	CMPNRAD225CA	0.26	0.12							6 28309 23296 2
MG	CMPNRAD225CM	0.17	0.08	in	1.3	0.26	1.6			6 28309 24366 1
ZN	CMPNRAD30CZ	1.17	0.53	mm	42	9	53	M20 x 1.5	M8 X 20	6 28309 16020 3
AL	CMPNRAD30CA	0.29	0.13							6 28309 23297 9
MG	CMPNRAD30CM	0.46	0.21	in	1.6	0.34	2.1			6 28309 24367 8
ZN	CMPNRAD35CZ	1.61	0.73	mm	46	9	62	M24 x 2	M8 X 25	6 28309 16022 7
AL	CMPNRAD35CA	0.63	0.29							6 28309 23298 6
MG	CMPNRAD35CM	0.4	0.18	in	1.8	0.34	2.4			6 28309 24368 5
ZN	CMPNRAD40CZ	2.31	1.05	mm	52	9	67	M24 X 2	M8 X 20	6 28309 16024 1
AL	CMPNRAD40CA	0.91	0.41							6 28309 23299 3
MG	CMPNRAD40CM	0.56	0.25	in	2	0.34	2.6			6 28309 24369 2
ZN	CMPNRAD45CZ	3.52	1.60	mm	61	11	76	M33 x 2	M10 X 25	6 28309 16026 5
AL	CMPNRAD45CA	1.38	0.63							6 28309 23300 6
MG	CMPNRAD45CM	0.88	0.40	in	2.4	0.43	3			6 28309 24370 8

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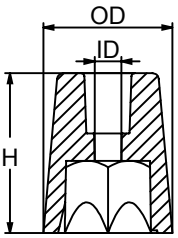
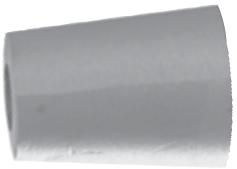
RADICE™ ANODES | HEXAGONAL

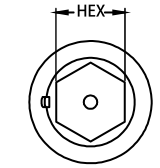


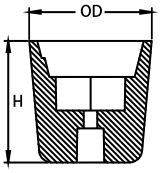
	PID	LB	KG		OD	ID	H	THD	Fastener	UPC
ZN	CMPNRAD50C	5.55	2.52	mm	72	11	83	M36 x 3	M10 x 35	6 28309 16028 9
AL	CMPNRAD50AC	2.18	0.99							6 28309 23301 3
MG	CMPNRAD50MC	1.39	0.63	in	2.8	0.43	3.3			6 28309 24371 5
ZN	CMPNRAD55C	6.12	2.78	mm	75	11	87	M40 x 3	M10 x 35	6 28309 16030 2
AL	CMPNRAD55AC	2.4	1.1							6 28309 24244 2
MG	CMPNRAD55MC	1.53	0.69	in	2.9	0.43	3.4			6 28309 24372 2
ZN	CMPNRAD60C	7.84	3.56	mm	83	11	98	M45 x 3	M10 x 35	6 28309 16032 6
AL	CMPNRAD60AC	3.07	1.39							6 28309 24245 9
MG	CMPNRAD60MC	1.96	0.89	in	3.3	0.43	3.8			6 28309 24373 9
ZN	CMPNRAD100C	12.47	5.67	mm	97	11	96	M50 x 3	M10 x 35	6 28309 23779 0
AL	CMPNRAD100AC	8.98	4.08							6 28309 23775 2
MG	CMPNRAD100MC	8.18	3.72	in	3.82	0.42	3.78			6 28309 23777 6

RADICE™ REPLACEMENT ANODES | HEXAGONAL

	PID	LB	KG		OD	HEX	H	UPC
ZN	CMPNRAD225Z	0.26	0.12	mm	33	22	40	6 28309 16017 3
AL	CMPNRAD225A	0.10	0.05					6 28309 19269 3
MG	CMPNRAD225M	0.06	0.03	in	1.30	0.87	1.57	6 28309 19308 9
ZN	CMPNRAD30Z	0.57	0.26	mm	42	27	53	6 28309 16019 7
AL	CMPNRAD30A	0.22	0.10					6 28309 19270 9
MG	CMPNRAD30M	0.14	0.06	in	1.65	1.06	2.09	6 28309 19309 6
ZN	CMPNRAD35Z	0.77	0.35	mm	46	32	62	6 28309 16021 0
AL	CMPNRAD35A	0.30	0.14					6 28309 19271 6
MG	CMPNRAD35M	0.19	0.09	in	1.81	1.26	2.44	6 28309 19310 2
ZN	CMPNRAD40Z	1.08	0.49	mm	52	36	67	6 28309 16023 4
AL	CMPNRAD40A	0.42	0.19					6 28309 19272 3
MG	CMPNRAD40M	0.26	0.12	in	2.05	1.42	2.64	6 28309 19311 9
ZN	CMPNRAD45Z	1.76	0.80	mm	61	41	76	6 28309 16025 8
AL	CMPNRAD45A	0.69	0.31					6 28309 19273 0
MG	CMPNRAD45M	0.43	0.20	in	2.40	1.61	2.99	6 28309 19312 6
ZN	CMPNRAD50Z	2.62	1.19	mm	72	46	83	6 28309 16027 2
AL	CMPNRAD50A	1.02	0.47					6 28309 19274 7
MG	CMPNRAD50M	0.64	0.29	in	2.83	1.81	3.23	6 28309 19313 3
ZN	CMPNRAD55Z	2.71	1.23	mm	75	50	87	6 28309 16029 6
AL	CMPNRAD55A	1.06	0.48					6 28309 19275 4
MG	CMPNRAD55M	0.66	0.30	in	2.95	1.97	3.43	6 28309 19314 0
ZN	CMPNRAD60Z	3.61	1.64	mm	83	55	98	6 28309 16031 9
AL	CMPNRAD60A	1.41	0.64					6 28309 19276 1
MG	CMPNRAD60M	0.88	0.40	in	3.23	2.17	3.86	6 28309 19315 7
ZN	CMPNRAD100Z	5.79	2.63	mm	97	54	96	6 28309 23778 3
AL	CMPNRAD100A	2.23	1.01					6 28309 23774 5
MG	CMPNRAD100M	1.41	0.64	in	3.82	2.13	3.78	6 28309 23776 9







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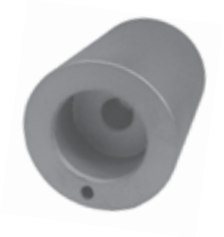
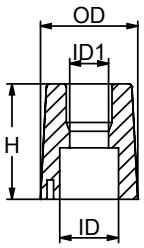
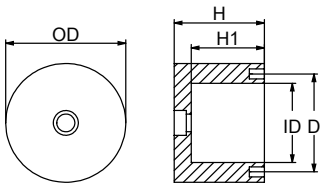
REGGIANI™ ANODES



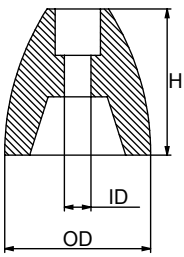


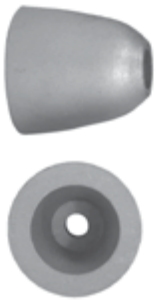
	PID	LB	KG		OD	ID	ID1	H	Shaft	UPC
ZN	CMRG20Z	0.17	0.08	mm	28	15	7	30	20	6 28309 23788 2
				in	1.1	0.6	0.28	1.2		
ZN	CMRG25Z	0.30	0.14	mm	34	20	7	34	25	6 28309 23053 1
				in	1.3	0.8	0.28	1.3		
ZN	CMRG30Z	0.93	0.42	mm	44	25	7	50	30	6 28309 23054 8
				in	1.7	1	0.27	2		
ZN	CMRG35Z	0.97	0.44	mm	48	28	9	55	35	6 28309 23055 5
				in	1.9	1.1	0.34	2.2		
ZN	CMRG40Z	1.21	0.54	mm	54	34	11	55	40	6 28309 23791 2
				in	2.1	1.3	0.41	2.2		
ZN	CMRG45Z	2.09	0.95	mm	64	40	12	63	45	6 28309 23794 3
				in	2.5	1.6	0.47	2.5		
ZN	CMRG50Z	3.39	1.54	mm	74	45	11	75	50	6 28309 23797 4
				in	2.9	1.8	0.44	3		
ZN	CMRG55Z	3.59	1.63	mm	78	49	10.5	75	55	6 28309 23800 1
				in	3.1	1.9	0.41	3		
ZN	CMRG60Z	5.29	2.40	mm	88	55	10.5	85	60	6 28309 23803 2
				in	3.5	2.2	0.41	3.3		

RIVA™ ANODES



	PID	LB	KG		OD	ID	D	H	H1	UPC
ZN	CMOU656Z	27.86	12.64	mm	170	92	110	100	65	6 28309 24137 7
AL	CMOU656A	10.69	4.85							6 28309 24225 1
MG	CMOU656M	6.77	3.07	in	6.69	3.6	4.33	3.94	2.56	6 28309 24358 6
ZN	CMOU657Z	10.43	4.73	mm	120	80	99	90	65	6 28309 24138 4
AL	CMOU657A	4.01	1.82							6 28309 24226 8
MG	CMOU657M	2.53	1.15	in	4.72	3.15	3.89	3.54	2.56	6 28309 24359 3





	PID	LB	KG		OD	ID	H	UPC
ZN	CMRIVA2230Z	0.33	0.15	mm	38	7	38	6 28309 21144 8
AL	CMRIVA2230A	0.13	0.06					6 28309 21166 0
MG	CMRIVA2230M	0.09	0.04	in	1.5	0.27	1.5	6 28309 21194 3
ZN	CMRIVA3550Z	0.88	0.40	mm	52	9	60	6 28309 21145 5
AL	CMRIVA3550A	0.31	0.14					6 28309 21167 7
MG	CMRIVA3550M	0.22	0.10	in	2	0.36	2.4	6 28309 21195 0

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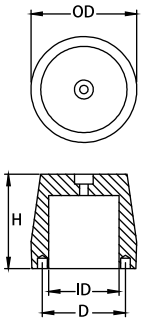
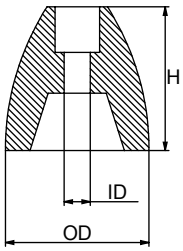
RIVA™ ANODES

	PID	LB	KG		OD	ID	D	H	UPC
ZN	CMOU686Z	15.36	6.97	mm	140	93	110	125	6 28309 24139 1
AL	CMOU686A	5.88	2.67						6 28309 24227 5
MG	CMOU686M	3.72	1.69	in	5.51	3.66	4.33	4.92	6 28309 24360 9

SPLENDIDA 72

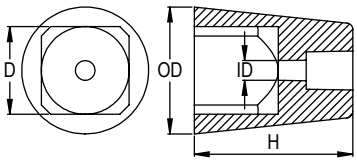


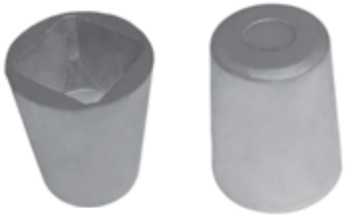
	PID	LB	KG	Shaft	Ø Fil.	UPC
ZN	CMRV221615Z	0.82	0.37	22-25	16 X 1.5	6 28309 24144 5
ZN	CMRV221620Z	0.49	0.22	22-25	16 X 2	6 28309 24145 2
ZN	CMRV2518175Z	0.82	0.37	25	18 X 1.75	6 28309 23809 4
ZN	CMRV251815Z	0.82	0.37	25	18 X 1.5	6 28309 23806 3
ZN	CMRV251820Z	0.82	0.37	25	18 X 2	6 28309 24146 9
ZN	CMRV302015Z	0.82	0.37	30	20 X 1.5	6 28309 24147 6
ZN	CMRV352420Z	2.76	1.25	35	24 X 2	6 28309 24148 3
ZN	CMRV402620Z	2.16	0.98	40	26 X 2	6 28309 24149 0
ZN	CMRV2230Z	0.82	0.37	Pilot hole	22 - 30	6 28309 24432 3
ZN	CMRV3550Z	2.20	1.40	Pilot hole	35 - 50	6 28309 24433 0



INTERAL SQUARE™ ANODES

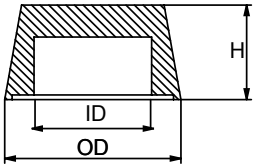
	PID	LB	KG		OD	ID	H	D	UPC
ZN	CMIQ648Z	2.16	0.98	mm	68	11	85	47	6 28309 23675 5
				in	2.68	0.43	3.35	1.85	





S.LORENZO™ ANODES

	PID	LB	KG		OD	ID	H	UPC
ZN	CMOU688Z	46.30	21.00	mm	240	75	130	6 28309 24141 4
				in	9.4	2.9	5.1	



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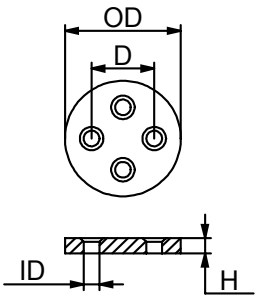
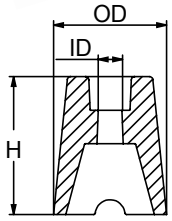


SHAFRAN™ ANODES

	PID	LB	KG		OD	D	ID	H	UPC
ZN	CMSH579Z	5.03	2.28	mm	148	80	12	20	6 28309 23906 0
				in	5.8	3.1	0.47	0.8	
ZN	CMSH587Z	5.03	2.28	mm	148	110	12	20	6 28309 23907 7
				in	5.8	4.3	0.47	0.8	
ZN	CMSH649Z	4.52	2.05	mm	135	115	12	20	6 28309 23908 4
				in	5.3	4.5	0.47	0.8	
ZN	CMSH650Z	5.69	2.58	mm	140	110	12	25	6 28309 23909 1
				in	5.5	4.3	0.47	1	
ZN	CMSH651Z	4.65	2.11	mm	125	105	12	25	6 28309 23910 7
				in	4.9	4.1	0.47	1	

NEW

	PID	LB	KG		OD	D	ID	H	UPC
ZN	CMSH732Z	8.6	3.9	mm	169	150	12	25	6 28309 23911 4
				in	6.29	5.90	0.47	0.98	



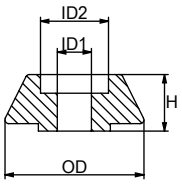
SOLE™ ANODES

	PID	LB	KG		OD	ID	H	UPC
ZN	CMPNSOLE1Z	0.24	0.11	mm	32	7	39	6 28309 16033 3
AL	CMPNSOLE1A	0.09	0.04					6 28309 19277 8
MG	CMPNSOLE1M	0.06	0.03	in	1.26	0.26	1.5	6 28309 19316 4
ZN	CMPNSOLE2Z	0.44	0.20	mm	37	9	45	6 28309 16034 0
AL	CMPNSOLE2A	0.17	0.08					6 28309 19278 5
MG	CMPNSOLE2M	0.11	0.05	in	1.46	0.34	1.77	6 28309 19317 1
ZN	CMPNSOLE3Z	0.84	0.38	mm	45	9	60	6 28309 16035 7
AL	CMPNSOLE3A	0.33	0.15					6 28309 19279 2
MG	CMPNSOLE3M	0.21	0.10	in	1.77	0.34	2.36	6 28309 19318 8
ZN	CMPNSOLE4Z	1.23	0.56	mm	55	9	70	6 28309 16036 4
AL	CMPNSOLE4A	0.48	0.22					6 28309 19280 8
MG	CMPNSOLE4M	0.31	0.14	in	2.17	0.34	2.76	6 28309 19319 5

*Remember: **Zinc** - Salt water only, **Aluminum** - Salt and Brackish water, **Magnesium** - Fresh water only.*

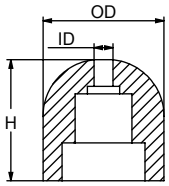
PLEASURECRAFT

PROP NUT & BOW THRUSTER



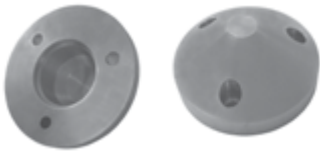
LEWMAR™ ANODES

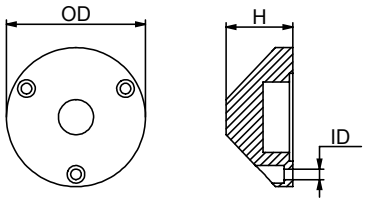
	PID	LB	KG		H	OD	ID1	ID2	UPC
ZN	CM589150Z	0.18	0.08	mm	14	38	8	18	6 28309 23373 0
				in	0.6	1.5	0.33	0.7	
ZN	CM589350Z	0.26	0.12	mm	15	45	10	24	6 28309 23379 2
				in	0.6	1.8	0.41	0.9	
ZN	CM589550Z	0.55	0.25	mm	20	60	17	34	6 28309 23385 3
				in	0.8	2.4	0.7	1.3	



MAX POWER™ ANODES

	PID	LB	KG		H	OD	ID	UPC
ZN	CMMP586Z	0.22	0.1	mm	32	32	7	6 28309 21502 6
				in	1.3	1.3	0.26	



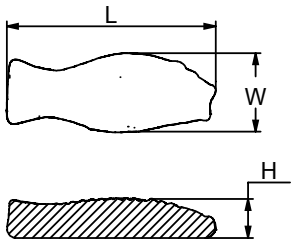


	PID	LB	KG		H	OD	ID1	UPC
ZN	CMMP676Z	1.23	0.56	mm	38	79	6	6 28309 23732 5
				in	1.5	3.1	0.25	
ZN	CMMP677Z	Contact us for more info		mm	49	112	7	6 28309 24661 7
				in	1.9	4.4	0.28	

PLEASURECRAFT

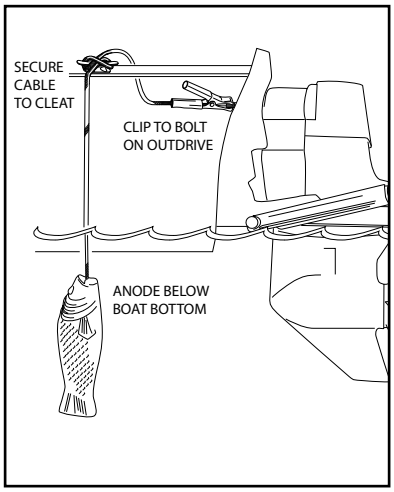
HULL ANODES

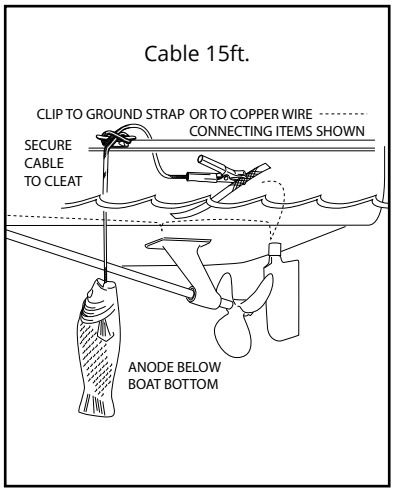
GROUPER

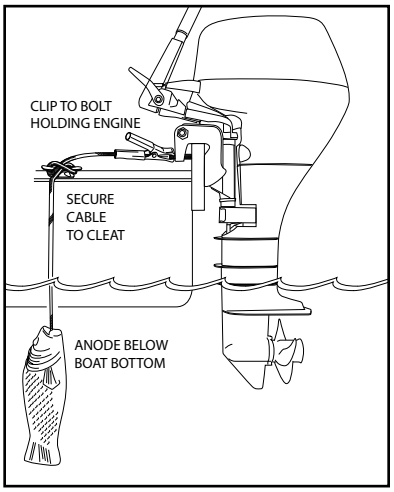


	PID	LB	KG		L	W	H	UPC
ZN	CMGROUPERZ	5.93	2.69	mm	205	78	40	6 28309 10514 3
AL	CMGROUPERA	2.69	1.22					6 28309 12219 5
MG	CMGROUPERM	2.09	0.95	in	8	3	1.6	6 28309 12368 0

**** IMPORTANT* Do not connect to battery***







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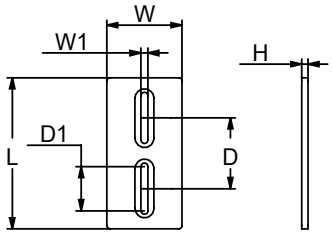
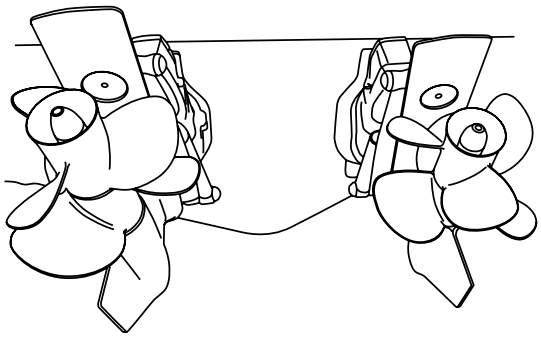
BONDING KIT | hardware included

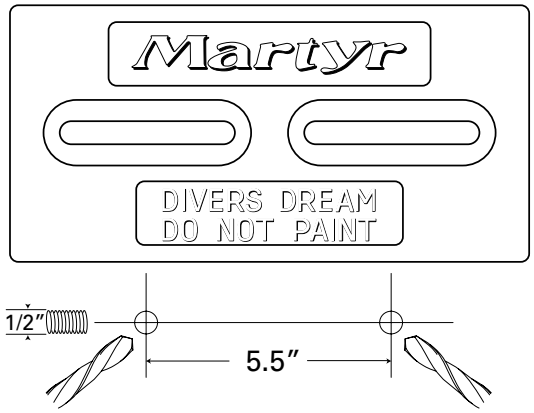
	PID	LB	KG		L	W	W1	H	D	D1	UPC
AL	CMDIVERBONDA	4	1.82	mm	305	152	13	13	140	89	6 28309 12284 3
				in	12	6	0.5	0.5	5.5	3.5	

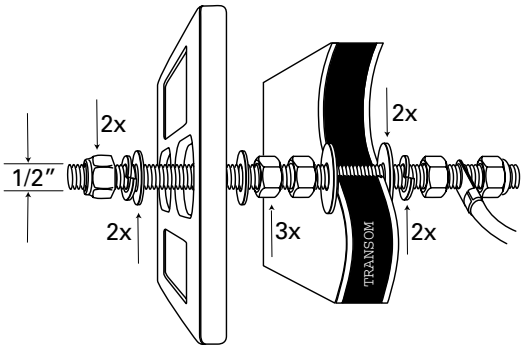


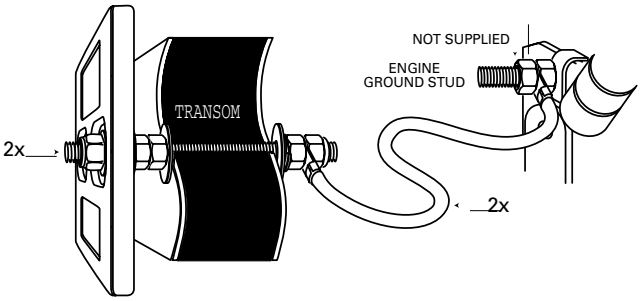
Please Note: It is strongly recommended that this anode kit be installed by a certified marine technician.

Legal Disclaimer: CMP is not liable for any damages resulting from improper installation of this kit and its contents.









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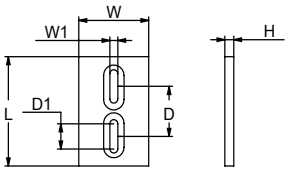
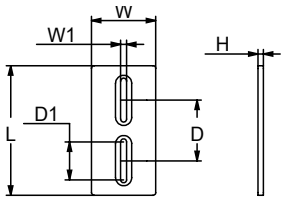
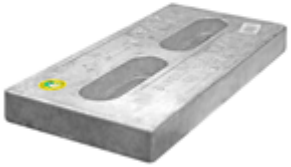
HULL ANODES



	PID	LB	KG		L	W	H	D	D1	W1	UPC
ZN	CMDIVERMINIZ	2.25	1.02	mm	150	99	13	69	35	11	6 28309 11338 4
AL	CMDIVERMINIA	0.87	0.40								6 28309 12375 8
MG	CMDIVERMINIM	0.68	0.31	in	5.9	3.9	0.5	2.7	1.36	0.44	6 28309 11506 7

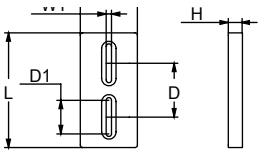
	PID	LB	KG		L	W	H	D	D1	W1	UPC
ZN	CMDIVERZ	8.00	3.6	mm	304	152	13	140	89	13	6 28309 11365 0
AL	CMDIVERA	3.25	1.48								6 28309 10183 1
MG	CMDIVERM	2.50	1.14	in	12	6	0.5	5.5	3.5	0.5	6 28309 11507 4





	PID	LB	KG		L	W	H	D	D1	W1	UPC
ZN	CMDIVERHZ	14.52	6.60	mm	304	152	25	140	89	13	6 28309 18981 5
AL	CMDIVERHA	6.12	2.78								6 28309 18990 7
MG	CMDIVERHM	4.46	2.03	in	12	6	1	5.5	3.5	0.5	6 28309 19000 2

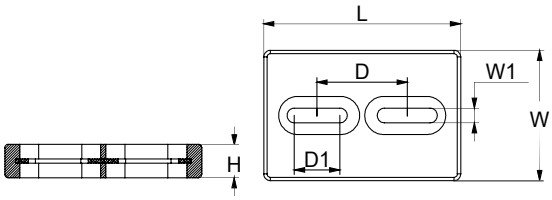
DOUBLE THE WEIGHT OF CMDIVER



NEW

	PID	LB	KG		L	W	H	D	D1	W1	UPC
ZN	CMDIVERMINIHZ	4.65	2.11	mm	5.9	3.9	1.0	2.7	1.36	0.44	6 28309 24693 8
AL	CMDIVERMINIHA	1.96	0.89								6 28309 24694 5
MG	CMDIVERMINIHM	1.37	0.62	in	19.35	12.79	3.28	8.85	4.46	1.44	6 28309 24695 2

Bolt-On DiverMini Heavy Plate
DOUBLE THE WEIGHT OF CMDIVERMINI



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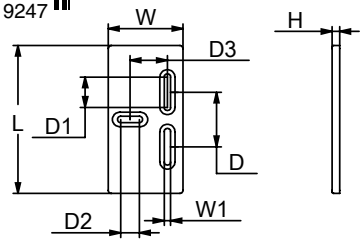
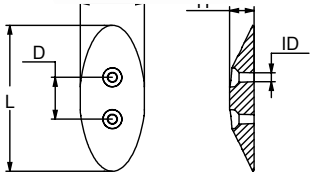
HULL ANODES

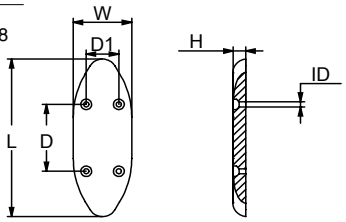
	PID	LB	KG		L	W	W1	H	D	D1	D2	D3	UPC
ZN	CMZ10Z	9.90	4.50	mm	304	152	13	13	114	64	36	76	6 28309 13020
AL	CMZ10A	4.00	1.81										6 28309 19152
MG	CMZ10M	3.10	1.41	in	12	6	0.5	0.6	1.5	2.5	1.42	3	6 28309 19247



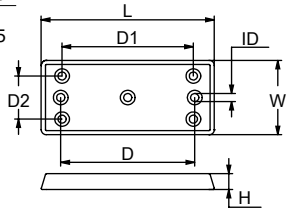
	PID	LB	KG		L	W	H	D	ID	UPC
ZN	CMM24Z	0.53	0.24	mm	111	49	18	32	6	6 28309 10679 9
AL	CMM24A	0.21	0.09							6 28309 12376 5
MG	CMM24M	0.13	0.06	in	4.36	1.92	0.7	1.25	0.25	6 28309 24353 1



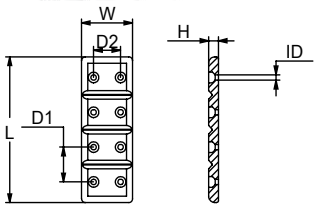
	PID	LB	KG		L	W	H	D	D1	ID	UPC
ZN	CMM25Z	3.92	1.78	mm	231	83	18	98	46	7	6 28309 10680 5
AL	CMM25A	1.52	0.69								6 28309 12377 2
MG	CMM25M	0.98	0.44	in	9.08	3.25	0.72	3.86	1.81	0.29	6 28309 24354 8



	PID	LB	KG		L	W	H	ID	D	D1	D2	UPC
ZN	CMM30Z	1.9	0.86	mm	152	68	14	6	121	117	40	6 28309 10681 2
AL	CMM30A	0.74	0.34									6 28309 12378 9
MG	CMM30M	0.48	0.22	in	6	2.67	0.56	0.25	4.75	4.63	1.58	6 28309 24355 5



	PID	LB	KG		L	W	H	D1	D2	ID	UPC
ZN	CMM40Z	2.08	0.95	mm	186	66	13	44	35	7	6 28309 10682 9
AL	CMM40A	0.81	0.37								6 28309 12379 6
MG	CMM40M	0.52	0.26	in	7.3	2.6	0.5	1.75	1.38	0.25	6 28309 24356 2



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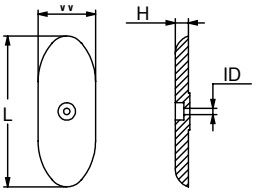
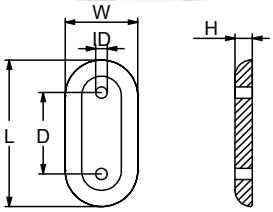
Find more online at **www.martyranodes.com**

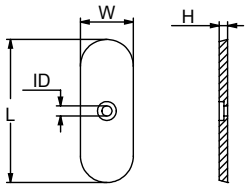
HULL ANODES



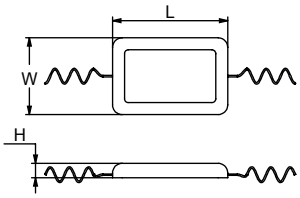
	PID	LB	KG		L	W	H	ID	UPC
ZN	CMMZ404Z	3.42	1.55	mm	224	86	19	10	6 28309 11339 1
AL	CMMZ404A	1.33	0.60						6 28309 12380 2
MG	CMMZ404M	0.86	0.39	in	8.8	3.38	0.75	0.38	6 28309 18507 7



	PID	LB	KG		L	W	H	D	ID	UPC
ZN	CMMZC406Z	6.75	3.07	mm	229	112	25	127	13	6 28309 11340 7
AL	CMMZC406A	2.62	1.19							6 28309 12381 9
MG	CMMZC406M	1.69	0.77	in	9	4.4	1	5	0.5	6 28309 17620 4



	PID	LB	KG		L	W	H	ID	UPC
ZN	CMN1Z	2.60	1.19	mm	216	80	13	10	6 28309 12348 2
AL	CMN1A	1.01	0.46						6 28309 12347 5
MG	CMN1M	0.78	0.35	in	8.5	3.16	0.5	0.41	6 28309 24357 9



	PID	LB	KG		L	W	H	UPC
ZN	CMPMWZ	2.00	0.91	mm	114	64	17	6 28309 11266 0
AL	CMPMWA	0.78	0.35					6 28309 12558 5
MG	CMPMWM	0.60	0.27	in	4.5	2.5	0.65	6 28309 24363 0
ZN	CMPNWZ	3.25	1.48	mm	152	76	19	6 28309 11268 4
AL	CMPNWA	1.26	0.57					6 28309 12559 2
MG	CMPNWM	0.97	0.44	in	6	3	0.75	6 28309 24374 6
ZN	CMPOWZ	4.38	1.99	mm	152	102	19	6 28309 11270 7
AL	CMPOWA	1.70	0.77					6 28309 12560 8
MG	CMPOWM	1.15	0.52	in	6	4	0.75	6 28309 24376 0
ZN	CMPPWZ	2.08	0.95	mm	229	127	20	6 28309 11272 1
AL	CMPPWA	0.81	0.37					6 28309 12561 5
MG	CMPPWM	0.55	0.25	in	9	5	0.8	6 28309 24377 7

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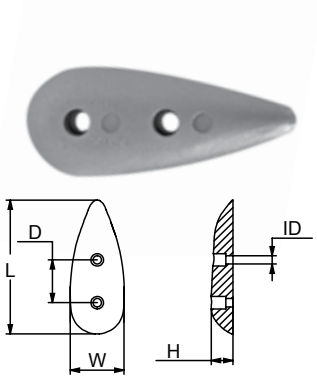
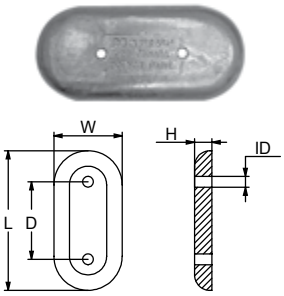
HULL ANODES

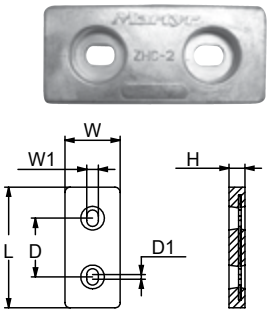
	PID	LB	KG		L	W	H	D	ID	UPC
ZN	CMT20Z	0.38	0.17	mm	86	46	15	33	6	6 28309 10358 3
AL	CMT20A	0.15	0.07							6 28309 12398 7
MG	CMT20M	0.10	0.05	in	3.4	1.8	0.6	1.28	0.25	6 28309 12191 4
ZN	CMT21Z	1.00	0.45	mm	129	51	21	41	8	6 28309 10358 3
AL	CMT21A	0.39	0.18							6 28309 12396 3
MG	CMT21M	0.26	0.12	in	5	2	0.8	1.63	0.31	6 28309 24385 2



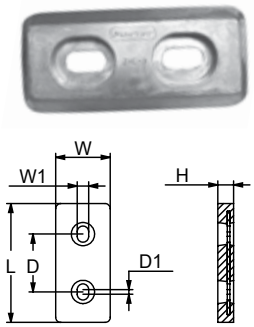
	PID	LB	KG		L	W	H	D	ID	UPC
ZN	CMZ24BSZ	23.00	10.44	mm	356	159	32	127	13	6 28309 12482 3
AL	CMZ24BSA	8.94	4.06							6 28309 12563 9
MG	CMZ24BSM	5.75	2.61	in	14	6.25	1.25	5	0.5	6 28309 24414 9



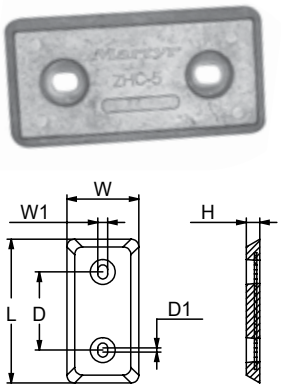
	PID	LB	KG		L	W	W1	H	D	D1	UPC
ZN	CMZHC2Z	2.19	0.99	mm	146	64	13	19	71	6	6 28309 11225 7
AL	CMZHC2A	0.85	0.39								6 28309 11401 5
MG	CMZHC2M	0.55	0.25	in	5.75	2.65	0.5	0.75	2.78	0.25	6 28309 17625 9



	PID	LB	KG		L	W	W1	H	D	D1	UPC
ZN	CMZHC3Z	1.90	0.86	mm	159	70	14	19	65	15	6 28309 11226 4
AL	CMZHC3A	0.74	0.34								6 28309 11402 2
MG	CMZHC3M	0.48	0.22	in	6.25	2.75	0.54	0.75	2.57	0.57	6 28309 24420 0

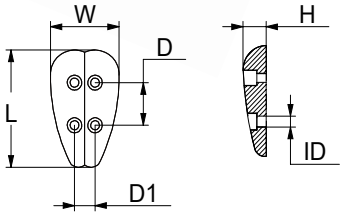


	PID	LB	KG		L	W	W1	H	D	D1	UPC
ZN	CMZHC5Z	4.50	2.05	mm	203	102	14	19	110	6	6 28309 11228 8
AL	CMZHC5A	1.75	0.79								6 28309 12312 3
MG	CMZHC5M	1.13	0.51	in	8	4	0.55	0.76	4.35	0.23	6 28309 24421 7



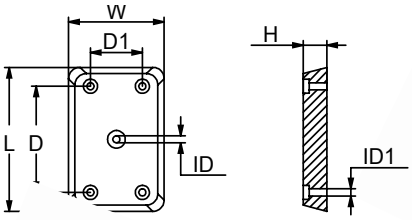
*Remember: **Zinc** - Salt water only, **Aluminum** - Salt and Brackish water, **Magnesium** - Fresh water only.*

HULL ANODES



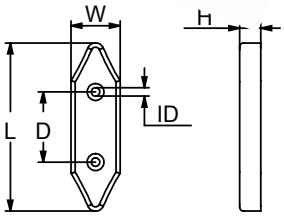
	PID	LB	KG		L	W	W1	H	D	D1	UPC
ZN	CMAC073Z	1.10	0.50	mm	110	67	21	39	27	6	6 28309 23534 5
				in	4.3	2.6	0.8	1.54	1.1	0.22	

	PID	LB	KG		L	W	H	D	D1	ID	ID1	UPC
ZN	CMPO029Z	2.20	1.00	mm	122	81	20	69	35	9	6	6 28309 24143 8
				in	4.8	3.2	0.8	2.7	1.38	0.33	0.24	



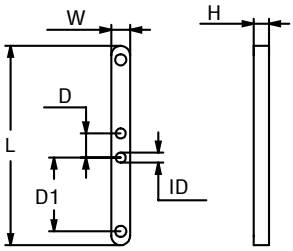
	PID	LB	KG		L	W	H	D	ID	UPC
ZN	CMCH006Z	0.40	0.18	mm	120	35	10	51	7	6 28309 23600 7
				in	4.7	1.4	0.4	2	0.28	

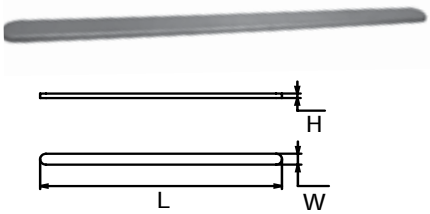
CHRYSLER SERIES



	PID	LB	KG		L	W	H	D	D1	UPC
ZN	CMZH470Z	4.30	1.95	mm	395	37	30	48	145	6 28309 24153 7
				in	15.5	1.5	1.2	1.9	5.7	

Zinc plate for fast hulls



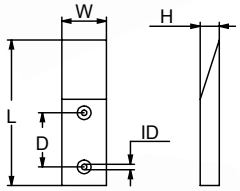


	PID	LB	KG		L	W	H	UPC
ZN	CMZH058Z	Contact us for more info		mm	910	45	12	6 28309 24152 0
				in	35.7	1.7	0.5	
ZN	CMZH058NZ			mm	900	50	12	6 28309 24151 3
				in	35.7	1.9	0.5	

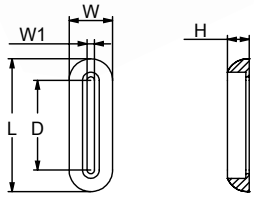
Zinc plate for hydrofoil and fast hulls

HULL ANODES

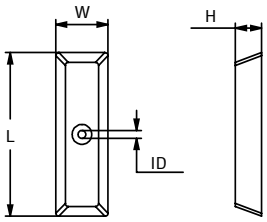
	PID	LB	KG		L	W	H	D	ID	UPC
ZN	CMPL505Z	4.08	1.85	mm	210	70	25	80	18	6 28309 23773 8
				in	8.27	2.76	0.98	3.1	0.71	



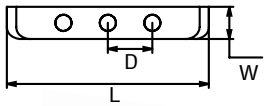
	PID	LB	KG		L	W	W1	H	D	UPC
ZN	SGFL501Z	2.91	1.32	mm	200	65	12	35	98	6 28309 18113 0
AL	SGFL501A	1.46	0.66							6 28309 19119 1
MG	SGFL501M	1.06	0.48	in	7.9	1.6	1	2.4	3.85	6 28309 19134 4



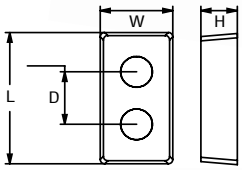
	PID	LB	KG		L	W	H	UPC
ZN	CMZH479Z	10.10	4.60	mm	245	80	40	6 28309 24154 4
				in	9.6	3.1	1.6	



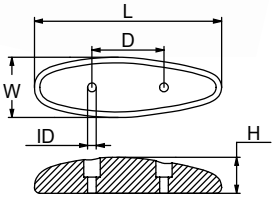
	PID	LB	KG		L	W	H	D	UPC
ZN	CMZH494Z	20.30	9.20	mm	500	80	40	160	6 28309 23851 3
				in	19.6	3.1	1.6	6.3	



	PID	LB	KG		L	W	H	D	UPC
ZN	CMZH504Z	5.95	2.70	mm	150	80	40	60	6 28309 24155 1
				in	5.9	3.1	1.6	2.4	



	PID	LB	KG		L	W	H	D	ID	UPC
ZN	SGAO072Z	1.10	0.50	mm	130	41	25	50	6	6 28309 21769 3
AL	SGAO072A	0.42	0.19							6 28309 22489 9
MG	SGAO072M	0.26	0.12	in	5.12	1.63	0.97	1.97	0.24	6 28309 22722 7



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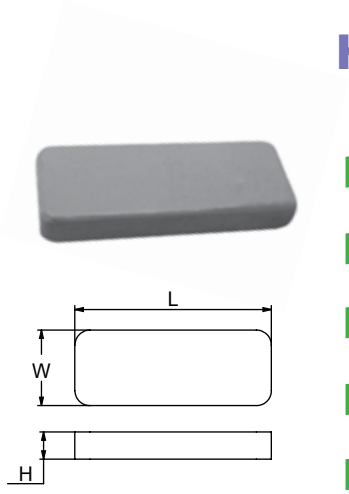
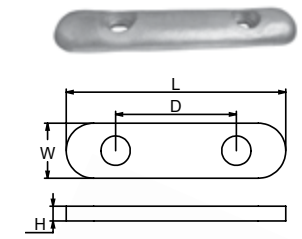
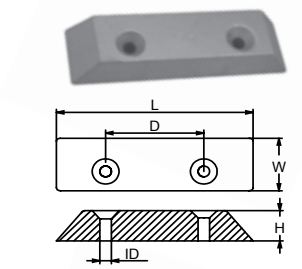
HULL ANODES



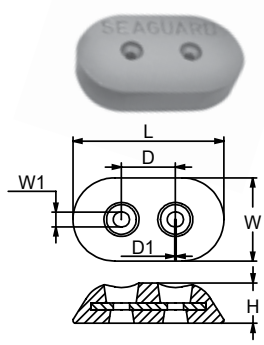
	PID	LB	KG		L	W	H	UPC
ZN	CMFL075Z	1.54	0.70	mm	130	50	18	6 28309 24463 7
				in	5.12	1.97	0.71	
ZN	CMFL074Z	3.31	1.50	mm	150	70	20	6 28309 24462 0
				in	5.91	2.76	0.79	
ZN	CMFL076Z	2.43	1.10	mm	110	70	20	6 28309 24465 1
				in	4.33	2.76	0.79	
ZN	CMRF104Z	16.76	7.60	mm	300	150	25	6 28309 24480 4
				in	11.8	5.91	1	
ZN	CMZH480Z	14.11	6.40	mm	300	150	20	6 28309 24571 9
				in	11.8	5.91	0.79	



	PID	LB	KG		L	W	D	H	UPC
ZN	CMSH505Z	15.4	7	mm	450	90	230	40	6 28309 24564 1
				in	17.7	3.54	9.06	1.57	

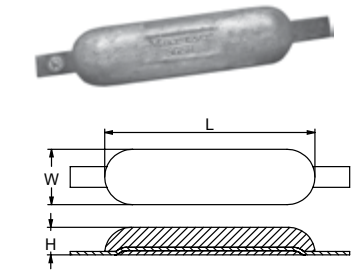


	PID	LB	KG		L	W	H	D	ID	UPC
ZN	SGPL356Z	0.88	0.40	mm	120	34	20	60	7	6 28309 18290 8
				in	4.72	1.34	0.79	2.36	0.28	
ZN	SGPL576Z	1.44	0.66	mm	175	34	20	100	7	6 28309 18293 9
				in	6.89	1.34	0.79	3.94	0.28	



	PID	LB	KG		L	W	W1	D	D1	H	UPC
ZN	SGPL355Z	1.52	0.69	mm	115	65	11	40	1	30	6 28309 18289 2
				in	4.53	2.56	0.43	1.57	0.04	1.18	

	PID	LB	KG		L	W	D	H	ID	UPC
ZN	SGPL573Z	4.85	2.2	mm	175	90	80	25	13	6 28309 18292 2
				in	6.9	3.54	3.15	1	0.51	
ZN	SGPL572Z	7.96	3.61	mm	200	110	130	30	14	6 28309 18291 5
				in	7.87	4.33	5.12	1.18	0.55	



	PID	LB	KG		L	W	H	UPC
ZN	SGSH16Z	11.22	5.09	mm	300	80	40	6 28309 22293 2
AL	SGSH16A	4.94	2.24					6 28309 22624 4
MG	SGSH16M	3.53	1.60	in	11.8	3.15	1.57	6 28309 22844 6
ZN	SGSH25Z	19.38	8.79	mm	320	147	40	6 28309 22294 9
AL	SGSH25A	8.07	3.66					6 28309 22625 1
MG	SGSH25M	5.51	2.50	in	12.6	5.79	1.57	6 28309 22845 3

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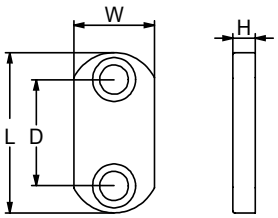
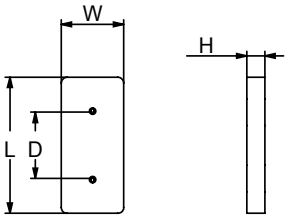
HULL ANODES

	PID	LB	KG		L	W	H	D	UPC
ZN	SGVT070	1.98	0.90	mm	147	60	25	80	6 28309 18212 0
				in	5.79	2.36	1	3.15	
ZN	SGVT507	5.73	2.60	mm	290	53	30	200	6 28309 18214 4
				in	11.4	2.1	1.18	7.87	
ZN	SGVT240	5.07	2.30	mm	250	62	30	140	6 28309 18213 7
				in	9.84	2.44	1.18	5.51	



	PID	LB	KG		L	W	H	D	UPC
ZN	SGVT695	11.02	5.00	mm	350	75	35	200	6 28309 18316 5
				in	13.8	3	1.4	7.87	

	PID	LB	KG		L	W	H	D	UPC
ZN	CMPL078Z	0.57	0.26	mm	100	50	10	50	6 28309 24473 6
				in	3.94	1.97	0.39	1.97	
ZN	CMPL419Z	6.17	2.80	mm	200	100	20	110	6 28309 24478 1
				in	7.87	3.94	0.79	4.33	
ZN	CMPL400Z	2.78	1.26	mm	150	60	25	80	6 28309 24476 7
AL	CMPL400A	1.28	0.58	in	5.90	2.36	0.98	3.15	6 28309 24587 0
MG	CMPL400M	0.92	0.42						6 28309 24626 6
ZN	CMPL401Z	4.49	2.04	mm	180	75	25	115	6 28309 24477 4
AL	CMPL401A	1.96	0.89	in	7.08	2.95	0.98	4.53	6 28309 24588 7
MG	CMPL401M	1.41	0.64						6 28309 24627 3
ZN	CMPL378Z	1.36	0.62	mm	120	50	20	75	6 28309 24475 0
AL	CMPL378A	0.70	0.32	in	4.72	1.97	0.79	2.95	6 28309 24586 3
MG	CMPL378M	0.55	0.25						6 28309 24625 9
ZN	CMFL075FZ	1.54	0.70	mm	130	50	18	77	6 28309 23135 4
				in	5.12	1.97	0.71	3.03	
ZN	CMFL076FZ	2.00	0.91	mm	110	70	20	40	6 28309 24464 4
AL	CMFL076FA	0.88	0.4	in	4.33	2.75	0.79	1.57	6 28309 24575 7
MG	CMFL076FM	0.62	0.28						6 28309 24613 6
ZN	CMPL357Z	5.47	2.48	mm	220	60	30	160	6 28309 24474 3
AL	CMPL357A	2.09	0.95	in	8.66	2.36	1.18	6.29	6 28309 24585 6
MG	CMPL357M	1.32	0.60						6 28309 24624 2
ZN	CMFL465Z	3.31	1.50	mm	145	67	20	70	6 28309 23657 1
				in	5.71	2.64	0.79	2.76	
ZN	CMPL574Z	3.44	1.56	mm	190	55	25	75	6 28309 24479 8
AL	CMPL574A	1.49	0.68	in	7.48	2.16	0.98	2.95	6 28309 24590 0
MG	CMPL574M	1.04	0.47						6 28309 24629 7
ZN	CMZH054Z	11.02	5.00	mm	300	80	28	180	6 28309 24566 5
				in	11.8	3.15	1.1	7.09	
ZN	CMRF484Z	17.64	8.00	mm	300	150	25	160	6 28309 24481 1
				in	11.8	5.91	1	6.3	



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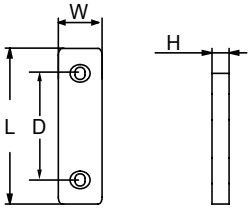
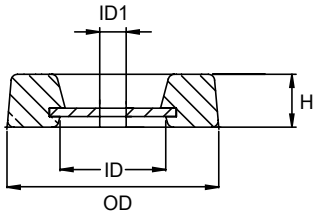
HULL ANODES



	PID	LB	KG		L	W	H	D	UPC
ZN	CMSH090Z	6.61	3.00	mm	300	60	33	200	6 28309 24554 2
				in	11.8	2.36	1.3	7.87	
ZN	CMSH091Z	11.00	5.00	mm	330	80	35	200	6 28309 24555 9
				in	13	3.15	1.38	7.87	
ZN	CMSH125Z	19.84	9.00	mm	440	88	40	230	6 28309 24557 3
				in	17.3	3.46	1.57	9.06	
ZN	CMSH126Z	26.46	12.00	mm	445	92	50	230	6 28309 24558 0
				in	17.5	3.62	1.97	9.06	
ZN	CMSH127Z	30.86	14.00	mm	455	98	55	230	6 28309 24559 7
				in	17.9	3.86	1.7	9.06	

RP SERIES RUDDER ANODES

NEW



Bolt-On Rudder Plate

	PID	LB	KG		H	OD	ID	ID1	UPC
ZN	CMRP4Z	2.24	1.016	mm	25	100	50	12.5	6 28309 24702 7
AL	CMRP4A	1.01	0.457						6 28309 24708 9
MG	CMRP4M	0.72	0.33	in	0.98	3.94	1.96	0.49	6 28309 24714 0
ZN	CMRP5Z	4.40	2	mm	25.4	125	28	10	6 28309 24703 4
AL	CMRP5A	1.89	0.86						6 28309 24709 6
MG	CMRP5M	1.32	0.6	in	1	4.92	1.10	0.39	6 28309 24715 7
ZN	CMRP6SZ	5.85	2.656	mm	25.4	146	32	14.5	6 28309 25674 6
AL	CMRP6SA	2.45	1.111						6 28309 25675 3
MG	CMRP6SM	1.67	0.759	in	1	5.75	1.26	0.57	6 28309 25676 0
ZN	CMRP6Z	8.82	4	mm	38	146	32	14.5	6 28309 24704 1
AL	CMRP6A	3.59	1.627						6 28309 24710 2
MG	CMRP6M	2.39	1.087	in	1.49	5.75	1.26	0.57	6 28309 24716 4
ZN	CMRP7Z	7.83	3.55	mm	25	168	40	12	6 28309 24705 8
AL	CMRP7A	3.15	1.43						6 28309 24711 9
MG	CMRP7M	2.08	0.946	in	0.98	6.61	1.57	0.47	6 28309 24717 1
ZN	CMRP8Z	11.50	5.22	mm	26	197	20	12	6 28309 24706 5
AL	CMRP8A	4.56	2.07						6 28309 24712 6
MG	CMRP8M	2.98	1.353	in	1.02	7.75	0.79	0.47	6 28309 24718 8
ZN	CMRP9Z	14.92	6.77	mm	25.4	222.3	14	12	6 28309 24707 2
AL	CMRP9A	5.87	2.666						6 28309 24713 3
MG	CMRP9M	3.81	1.73	in	1	8.75	0.55	0.47	6 28309 24719 5

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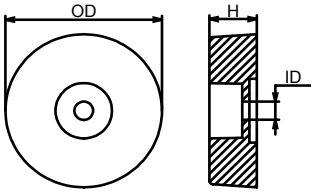
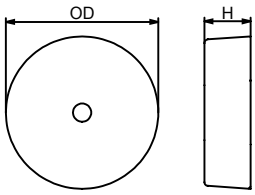
ROUND PLATE ANODES NEW

	PID	LB	KG		OD	ID	H	UPC
ZN	SGBA001Z	5.58	2.53	mm	125	52	38	6 28309 18335 6
				in	4.92	2.05	1.49	
NEW AL	SGBA001A	2.18	0.99	mm	125	15	38	6 28309 18384 4
				in	4.92	0.59	1.50	
NEW MG	SGBA001M	1.52	0.69	mm	125	15	38	6 28309 18435 3
				in	4.92	0.59	1.50	
ZN	SGBA506Z	8.14	3.69	mm	140	16	40	6 28309 24126 1
				in	5.51	0.63	1.57	
NEW AL	SGBA506A	3.50	1.59	mm	140	16	40	6 28309 18385 1
				in	5.5	0.63	1.57	
NEW MG	SGBA506M	2.45	1.11	mm	140	16	40	6 28309 18523 7
				in	5.5	0.63	1.57	
ZN	SGBA597Z	11.79	5.35	mm	200	17	25	6 28309 18337 0
				in	7.87	0.67	0.98	
AL	SGBA597A	5.11	2.32	mm	200	17	25	6 28309 18386 8
				in	7.87	0.67	0.98	
MG	SGBA597M	3.5	1.60	mm	200	17	25	6 28309 18437 7
				in	7.87	0.67	0.98	



	PID	LB	KG		H	OD	UPC
ZN	CMF90BZ	2.23	1.01	mm	25	90	6 28309 24129 2
AL	CMF90BA	0.86	0.39				6 28309 24207 7
MG	CMF90BM	0.55	0.25	in	1	3.5	6 28309 24333 3



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PLEASURECRAFT

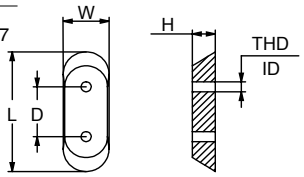
IN-BOARD/ OUTBOARD/ STERNDRIVE ANODES

BRP™ OMC/JOHNSON EVINRUDE ANODES

	PID	LB	KG		L	W	H	D	THD	ID	UPC
ZN	CM123009Z	0.19	0.09	mm	61	23	12	26	10-24 UNC	--	6 28309 11321 6
AL	CM123009A	0.07	0.03								6 28309 12670 4
MG	CM123009M	0.05	0.02	in	2.4	0.9	0.45	1			6 28309 11320 9
ZN	CM327606Z	0.18	0.08	mm	61	23	12	26	--	0.2	6 28309 10014 8
AL	CM327606A	0.07	0.03								6 28309 12338 3
MG	CM327606M	0.04	0.02	in	2.4	0.9	0.45	1		5.1	6 28309 12682 7

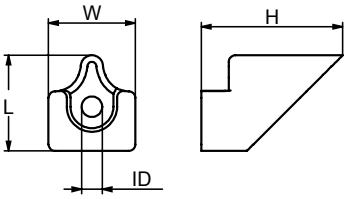
ENGINES 70-90 HP

JOHNSON 2-150 HP



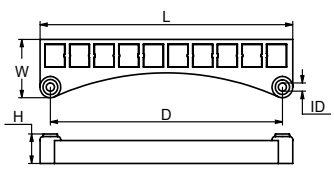
	PID	LB	KG		L	W	H	ID	UPC
ZN	CM334451Z	0.24	0.11	mm	33	29.8	48.5	6.9	6 28309 19249 5
AL	CM334451A	0.09	0.04						6 28309 12338 3
MG	CM334451M	0.05	0.023	in	1.3	1.17	1.91	0.27	6 28309 17603 7

JOHNSON 4 - 7,5 HP EVINRUDE 4 - 7,5 HP



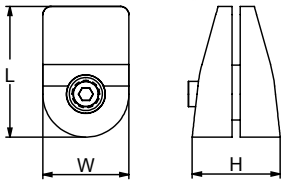
	PID	LB	KG		L	W	H	D	ID	UPC
ZN	CM367Z	0.95	0.43	mm	193	43	22	179	6.4	6 28309 10021 6
AL	CM367A	0.37	0.1							6 28309 12672 8
MG	CM367M	0.24	0.11	in	7.6	1.7	0.87	7.05	0.25	6 28309 12683 4

OMC P



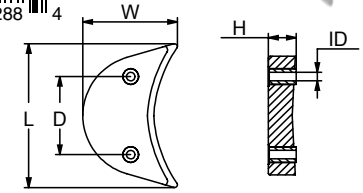
	PID	LB	KG		L	W	H	UPC
ZN	CM389999Z	0.5	0.23	mm	48	31	32.5	6 28309 11322 3
AL	CM389999A	0.19	0.09					6 28309 24165 0
MG	CM389999M	0.13	0.06	in	1.9	1.23	1.28	6 28309 24271 8

SAILDRIVE



	PID	LB	KG		L	W	H	D	ID	UPC
ZN	CM392123Z	1.67	0.76	mm	120	76	22	63.5	6.9	6 28309 10032 2
AL	CM392123A	0.65	0.29							6 28309 19256 3
MG	CM392123M	0.42	0.19	in	4.7	3	0.88	2.5	0.27	6 28309 19288 4

OMC 90 - 140 HP JOHNSON 90 - 140 HP EVINRUDE 90 - 140 HP



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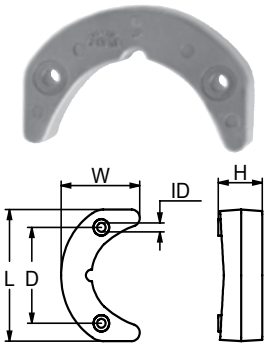
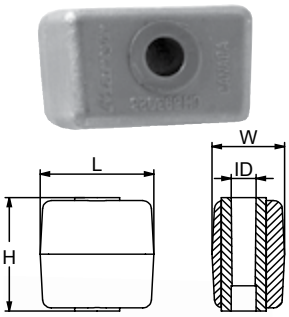
BRP™ OMC/JOHNSON EVINRUDE ANODES



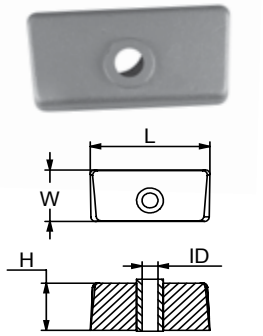
	PID	LB	KG		L	W	H	D	ID	UPC
ZN	CM392462Z	1.44	0.65	mm	102	64	36	74	6.9	6 28309 10034 6
AL	CM392462A	0.56	0.25							6 28309 12673 5
MG	CM392462M	0.36	0.16	in	4	2.5	1.4	2.9	0.27	6 28309 12684 1

OMC 50 - 75 HP JOHNSON 50 - 75 HP EVINRUDE 50 - 75 HP



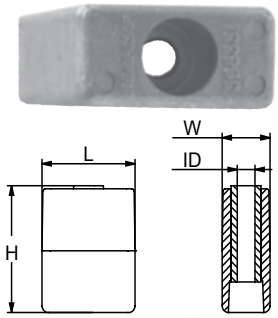
	PID	LB	KG		L	W	H	ID	UPC
ZN	CM393023Z	0.48	0.22	mm	40	25	41	8.1	6 28309 10035 3
AL	CM393023A	0.19	0.09						6 28309 12674 2
MG	CM393023M	0.12	0.05	in	1.6	1	1.63	0.32	6 28309 12685 8

(Supercedes to CM436705)
OMC 50 -60 - 70 -90 - 140 HP JOHNSON 50 - 115 - 120 - 140 HP EVINRUDE 50-140 - 200 HP



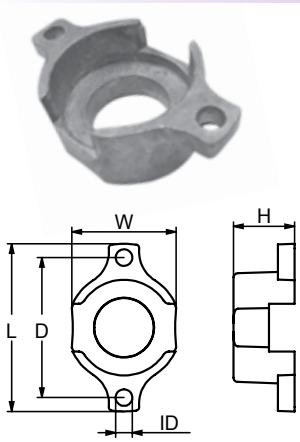
	PID	LB	KG		L	W	H	ID	UPC
ZN	CM397768Z	0.68	0.31	mm	64	31	28	8.1	6 28309 10037 7
AL	CM397768A	0.26	0.12						6 28309 12675 9
MG	CM397768M	0.17	0.08	in	2.5	1.2	1.1	0.32	6 28309 12686 5

OMC COBRA



	PID	LB	KG		L	W	H	ID	UPC
ZN	CM398331Z	0.73	0.33	mm	45	23	57	8.1	6 28309 10039 1
AL	CM398331A	0.28	0.13						6 28309 12676 6
MG	CM398331M	0.18	0.08	in	1.75	0.9	2.25	0.32	6 28309 12687 2

JOHNSON 160 - 280 HP (V4 - V6) EVINRUDE



	PID	LB	KG		L	W	H	D	ID	UPC
ZN	CM398873Z	0.33	0.15	mm	76	48	27.9	64.5	7.6	6 28309 10041 4
AL	CM398873A	0.13	0.06							6 28309 12677 3
MG	CM398873M	0.08	0.04	in	3	1.9	1.1	2.54	0.3	6 28309 12688 9

JOHNSON 737

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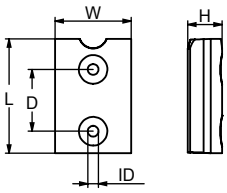
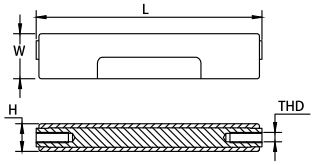
BRP™ OMC/JOHNSON EVINRUDE ANODES

	PID	LB	KG		L	W	H	D	ID	UPC
ZN	CM431708Z	0.6	0.27	mm	75.8	50.8	23	41	6.9	6 28309 10049 0
AL	CM431708A	0.23	0.10							6 28309 12678 0
MG	CM431708M	0.15	0.07	in	3	2	0.9	1.6	0.27	6 28309 12689 6



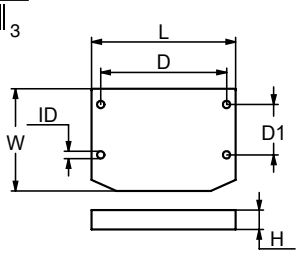
JOHNSON - EVINRUDE - DIABOLO 70 - 120 HP

	PID	LB	KG		L	W	H	THD	UPC
ZN	CM5007089Z	1.5	0.68	mm	174.24	34.79	21.33	5/16-18 UNC	6 28309 11307 0
AL	CM5007089A	0.68	0.31						6 28309 19257 0
MG	CM5007089M	0.5	0.22	in	6.86	1.37	0.84		6 28309 19293 8



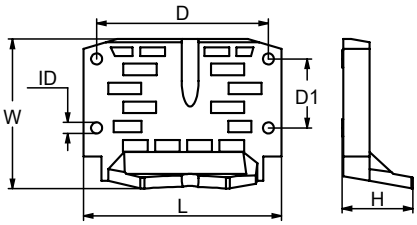
(CM433580Z) JOHNSON - EVINRUDE 60/ 300 HP

	PID	LB	KG		L	W	H	D	D1	ID	UPC
ZN	CM980756Z	2.11	0.96	mm	117	80	16	102	41	7	6 28309 10145 9
AL	CM980756A	0.82	0.37								6 28309 24182 7
MG	CM980756M	0.53	0.24	in	4.6	3.2	0.6	4	1.6	0.28	6 28309 24292 3



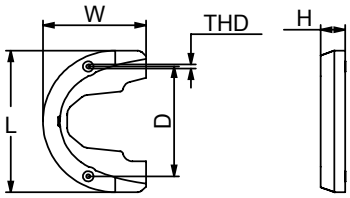
	PID	LB	KG		L	W	H	D	D1	ID	UPC
ZN	CM982277Z	1.87	0.85	mm	117	85	41	102	41	7	6 28309 10146 6
AL	CM982277A	0.72	0.33								6 28309 24183 4
MG	CM982277M	0.47	0.21	in	4.6	3.33	1.6	4	1.6	0.28	6 28309 24293 0

OMC M (100-245 HP)



	PID	LB	KG		L	W	H	D	THD	UPC
ZN	CM983494Z	1.81	0.82	mm	146	104	25	113	¼-20 UNC	6 28309 10149 7
AL	CM983494A	0.7	0.32							6 28309 12679 7
MG	CM983494M	0.45	0.20	in	5.72	4.09	0.98	4.44		6 28309 12690 2

OMC 90 HP



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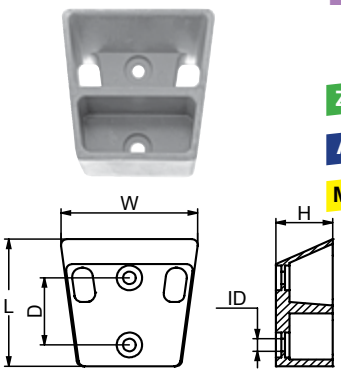
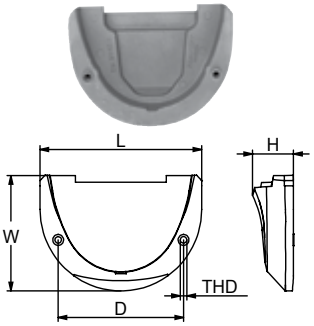
BRP™ OMC/JOHNSON EVINRUDE ANODES

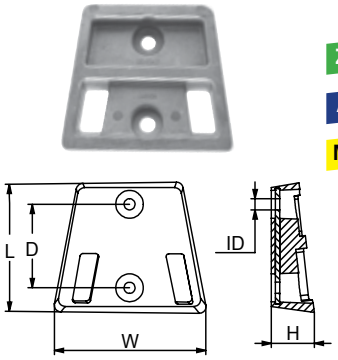


	PID	LB	KG		L	W	H	D	ID	UPC
ZN	CM983952Z	2.44	1.1	mm	107	112	46.5	57.2	10.5	6 28309 10150 3
AL	CM983952A	0.95	0.43							6 28309 24185 8
MG	CM983952M	0.67	0.3	in	4.2	4.4	1.8	2.25	0.4	6 28309 24295 4

OMC COBRA 130- 385 HP

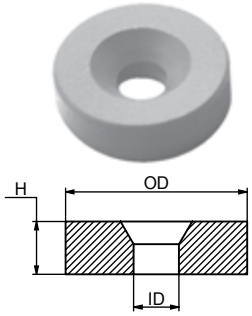


	PID	LB	KG		L	W	H	D	THD	UPC
ZN	CM984513Z	2.14	0.97	mm	145	104	40.6	113	¼-20 UNC	6 28309 10153 4
AL	CM984513A	0.83	0.38							6 28309 12680 3
MG	CM984513M	0.59	0.27	in	5.7	4.1	1.6	4.44		6 28309 10152 7



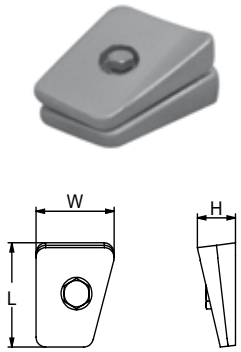
	PID	LB	KG		L	W	H	D	ID	UPC
ZN	CM984547Z	2	0.91	mm	97	115	32	57	10	6 28309 10155 8
AL	CM984547A	0.78	0.35							6 28309 12681 0
MG	CM984547M	0.50	0.23	in	3.8	4.5	1.24	2.25	0.38	6 28309 12691 9

OMC COBRA BASSA



	PID	LB	KG		OD	H	ID	UPC
ZN	CM5031705Z	0.04	0.02	mm	24	7	7	6 28309 24104 9
				in	0.9	0.3	0.26	

HONDA 8/20HP



	PID	LB	KG		L	W	H	UPC
ZN	CM434029Z	0.42	0.19	mm	50	42	24	6 28309 23197 2
				in	2	1.7	0.94	

DOUBLE PLATE
JOHNSON 521 20 - 25 HP 1991 EVINRUDE 20 - 25 HP 1991

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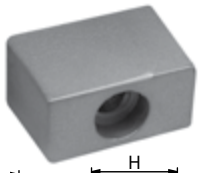
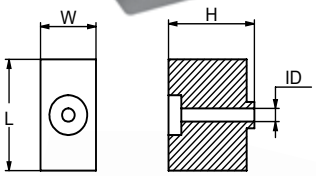
BRP™ OMC/JOHNSON EVINRUDE ANODES



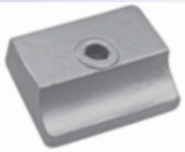
	PID	LB	KG		L	W	H	ID	UPC
ZN	CM395780Z	0.44	0.2	mm	42	22	31	8	6 28309 23340 2
				in	2	1.6	1.3	0.31	

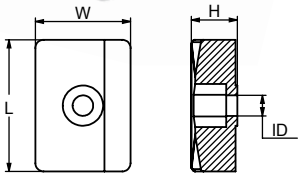
PLATE 60-280HP



	PID	LB	KG		L	W	H	ID	UPC
ZN	CM338635Z	0.12	0.06	mm	36	26	13	6	6 28309 21124 0
				in	1.4	1	0.5	0.22	

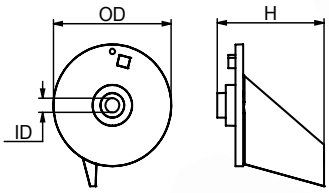
DOUBLE PLATE OUTBOARD 9,9-15CV
JOHNSON 8 - 9,9 - 15 HP



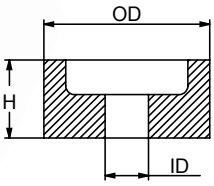


	PID	LB	KG		OD	H	ID	UPC
ZN	CM5032929Z	0.54	0.25	mm	73	66	9	6 28309 21128 8
				in	2.9	2.6	0.33	

EVINRUDE 70 HP 4T

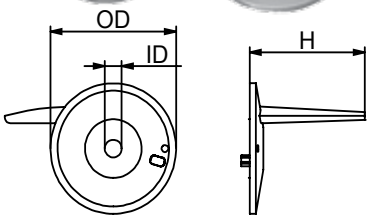


	PID	LB	KG		OD	H	ID	UPC
ZN	CM5532187J00Z	0.03	0.01	mm	21	10	6	6 28309 19252 5
AL	CM5532187J00A	0.01	0.01					6 28309 12963 7
MG	CM5532187J00M	0.01	0.01	in	0.83	0.39	0.24	6 28309 24281 7



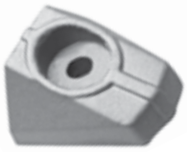
	PID	LB	KG		OD	H	ID	UPC
ZN	CM5512595500Z	0.35	0.16	mm	62	57	9	6 28309 21129 5
				in	2.4	2.24	0.33	

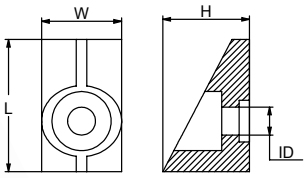
SUZUKI 75 - 85 - 90 HP



	PID	LB	KG		L	W	H	ID	UPC
ZN	CM5532098600Z	0.22	0.1	mm	38	40	23	6	6 28309 23367 9
				in	0.8	1.57	0.9	0.25	

SUZUKI F.B.
5 HP





*Remember: **Zinc** - Salt water only, **Aluminum** - Salt and Brackish water, **Magnesium** - Fresh water only.*

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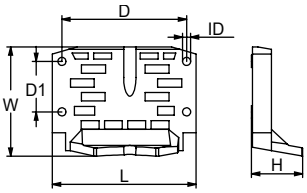
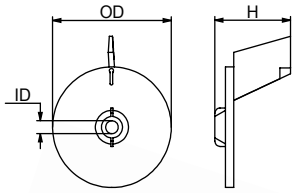
BRP™ OMC/JOHNSON EVINRUDE ANODES



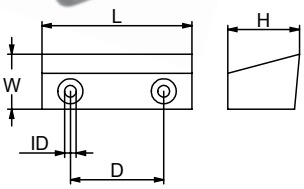
	PID	LB	KG		L	W	H	D	D1	ID	UPC
ZN	CM982438Z	2.67	1.21	mm	176	81	40	102	41	7	6 28309 24115 5
				in	6.9	3.2	1.6	4	1.6	0.28	

OMC 100-245 HP



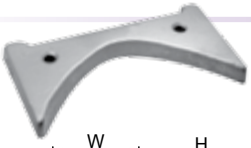
	PID	LB	KG		OD	H	ID	UPC
ZN	CM338742Z	0.88	0.4	mm	113	72	11	6 28309 23337 2
				in	4.4	2.8	0.43	

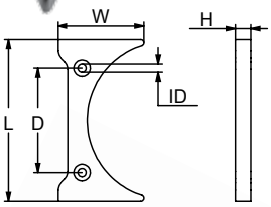
REVOLVING FIN FOR IN-OUTBOARD
OMC E.B. - F.B. - 55 HP



	PID	LB	KG		L	W	H	D	ID	UPC
ZN	CM986158Z	1.33	0.6	mm	90	45	43	51	10	6 28309 24116 2
				in	3.5	1.77	1.7	2	0.37	

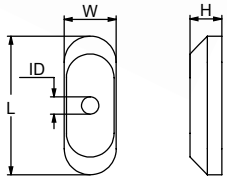
OMC COBRA





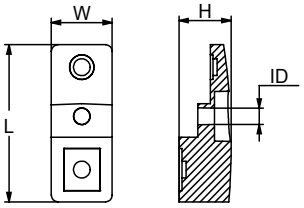
	PID	LB	KG		L	W	H	D	ID	UPC
ZN	CM987067Z	1.59	0.72	mm	158	84	15	102	8	6 28309 24117 9
				in	6.2	3.3	0.6	4	0.3	

OMC5700



	PID	LB	KG		L	W	H	ID	UPC
ZN	CM5532098400Z	0.11	0.05	mm	48	18	11	6	6 28309 21130 1
				in	1.9	0.7	0.4	0.2	

SUZUKI 2 HP



	PID	LB	KG		L	W	H	ID	UPC
ZN	CM5532190J01Z	0.19	0.09	mm	55	22	19	6	6 28309 21131 8
				in	2.2	0.9	0.7	0.2	

DF 90 - 115 -140

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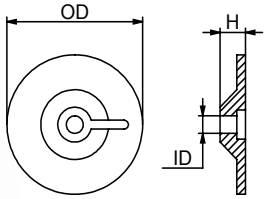
BRP™ OMC/JOHNSON EVINRUDE ANODES

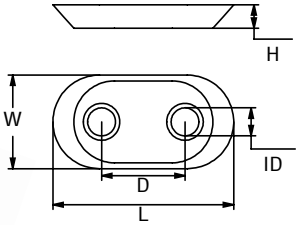
	PID	LB	KG		OD	H	ID	UPC
ZN	CM5532193900Z	0.13	0.06	mm	48	9	7	6 28309 20935 3
				in	1.9	0.4	0.26	

PLATE 9.9-15 HP



	PID	LB	KG		L	W	H	D	ID	UPC
ZN	CM5031538Z	0.17	0.08	mm	78	20	10	40	7	6 28309 24103 2
				in	3.1	0.79	0.4	1.6	0.26	

PLATE 2-8 HP



BRP™ ANODE KITS NEW

ALL KITS INCLUDE FASTENING HARDWARE, INSTALLATION INSTRUCTIONS, AND ALL OF THE ANODES REQUIRED FOR 100% PROTECTION.

	PID	LB	KG	Contains	Fits	UPC
ZN	CMSTRGERKITZ	2.95	1.34	CM983494 X 1 CM393023 X 1 CM431708 X 1	BRP OMC Stringer	6 28309 24982 3
AL	CMSTRGERKITA	1.4	0.63			6 28309 24965 6
MG	CMSTRGERKITM	1.07	0.48			6 28309 24966 3

BRP OMC Stringer

	PID	LB	KG	Contains	Fits	UPC
ZN	CMCOBRAKITZ	3.69	1.68	CM984513 X 1 CM393023 X 1 CM431708 X 1	BRP OMC COBRA	6 28309 24952 6
AL	CMCOBRAKITA	1.65	0.75			6 28309 24950 2
MG	CMCOBRAKITM	1.25	0.57			6 28309 24951 9

BRP OMC COBRA

	PID	LB	KG	Contains	Fits	UPC
ZN	CMOMC5075KITZ	2.25	1.02	CM393023 X 1 CM392462 X 1	BRP OMC 50-75HP	6 28309 24958 8
AL	CMOMC5075KITA	1.11	0.505			6 28309 24956 4
MG	CMOMC5075KITM	0.89	0.41			6 28309 24957 1

BRP OMC 50-75HP

	PID	LB	KG	Contains	Fits	UPC
ZN	CMOMCV4V6KITZ	2.45	1.11	CM393023 X 1 CM392123 X 1	BRP OMC V4-V6	6 28309 24961 8
AL	CMOMCV4V6KITA	1.17	0.53			6 28309 24959 5
MG	CMOMCV4V6KITM	0.93	0.42			6 28309 24960 1

BRP OMC V4-V6

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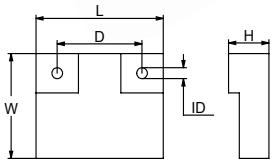
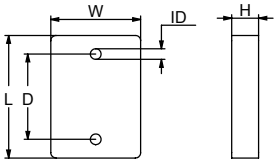
BMW™ ANODES

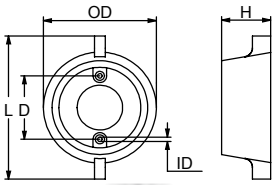


	PID	LB	KG		L	W	H	D	ID	UPC
ZN	CMBW175Z	0.71	0.32	mm	60	48	26	40	8	6 28309 24118 6
				in	2.4	1.9	1	1.6	0.33	

BMW100 MARK1

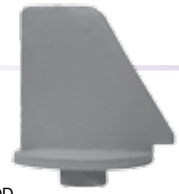


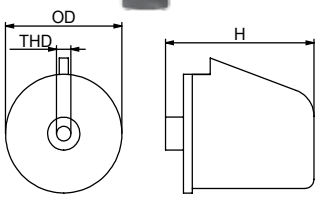
	PID	LB	KG		L	W	H	D	ID	UPC
ZN	CMBW499Z	0.74	0.34	mm	69	50	15	48	6	6 28309 23576 5
				in	2.7	2	0.6	1.9	0.2	



	PID	LB	KG		L	H	D	OD	ID	UPC
ZN	CMBW172Z	1.83	0.83	mm	165	54	80	124	8	6 28309 24651 8
				in	6.5	2.1	3.15	4.9	0.33	

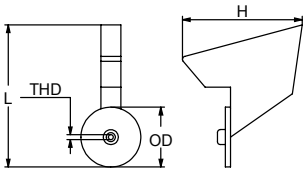
BMW MARK1





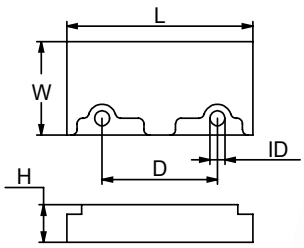
	PID	LB	KG		OD	H	THD	UPC
ZN	CMBW173Z	0.73	0.33	mm	65	83	⅜-16 UNC	6 28309 24652 5
				in	2.6	3.3		

BMW MARK1



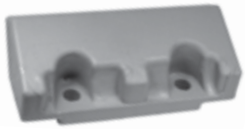
	PID	LB	KG		L	W	OD	THD	UPC
ZN	CMBW043Z	1.5	0.68	mm	165	120	65	⅜-16 UNC	6 28309 23573 4
				in	6.5	4.7	2.56		

BMW MARK2



	PID	LB	KG		L	W	H	D	ID	UPC
ZN	CMBW044Z	2.07	0.94	mm	119	59	30	62	9	6 28309 24650 1
				in	4.69	2.32	1.18	2.44	0.33	

BMW MARK2



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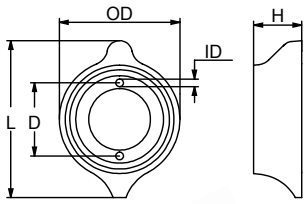
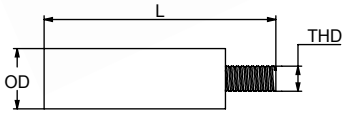
BUKH™ ANODES

	PID	LB	KG		OD	L	H	D	ID	UPC
ZN	CMB00E5829Z	1.82	0.83	mm	107	140	43	68	7	6 28309 12201 0
AL	CMB00E5829A	0.71	0.32							6 28309 19260 0
MG	CMB00E5829M	0.5	0.23	in	4.2	5.5	1.7	2.66	0.27	6 28309 19304 1

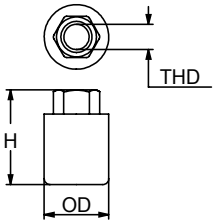


	PID	LB	KG		OD	L	THD	UPC
ZN	CMB00E0450Z	0.06	0.03	mm	12	46	M5	6 28309 12182 2
AL	CMB00E0450A	0.02	0.01					6 28309 23559 8
MG	CMB00E0450M	0.02	0.01	in	0.5	1.8		6 28309 23560 4

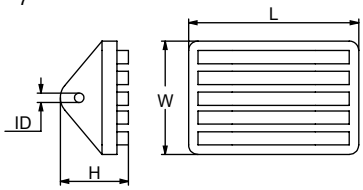


CASTOLDI™ ANODES

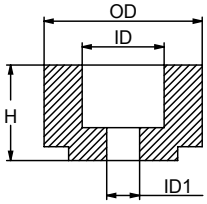
	PID	LB	KG		OD	H	THD	UPC
ZN	CM590140552Z	0.14	0.06	mm	22	30	M10	6 28309 21132 5
				in	0.9	1.2		



	PID	LB	KG		L	W	H	ID	UPC
ZN	CM542150626Z	1.8	0.82	mm	90	60	53	13	6 28309 23355 6
				in	3.5	2.4	2.1	0.49	
ZN	CM542160824Z	0.94	0.43	mm	120	70	74	14	6 28309 23358 7
				in	4.7	2.7	2.9	0.56	



	PID	LB	KG		OD	H	ID	ID1	UPC
ZN	CM590163243Z	1.12	0.51	mm	58	35	25	9	6 28309 23388 4
				in	2.28	1.38	0.98	0.36	
ZN	CM59066209Z	3.3	1.5	mm	80	50	30	10	6 28309 23391 4
				in	3.15	1.97	1.18	0.4	



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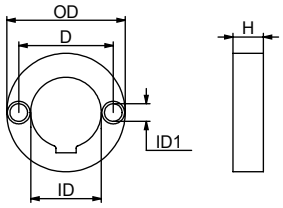
DUFOUR™ ANODES

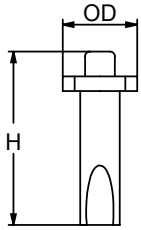


	PID	LB	KG		OD	H	D	ID	ID1	UPC
ZN	CMDU22Z	0.2	0.09	mm	47	12	35	27	7	6 28309 24121 6
				in	1.8	0.5	1.39	1.06	0.26	
ZN	CMDU25Z	0.31	0.14	mm	52	15	39	28	7	6 28309 24122 3
				in	2	0.6	1.52	1.1	0.26	
ZN	CMDU30Z	0.4	0.18	mm	55	18	43	33	7	6 28309 24123 0
				in	2.2	0.7	1.69	1.3	0.26	

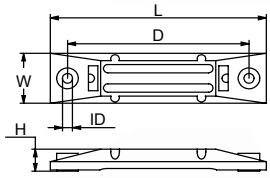
HIDEA™ ANODES

	PID	LB	KG		OD	H	UPC
ZN	CM6J81132500Z	0.03	0.02	mm	16	41	6 28309 19539 7
				in	0.63	1.61	

Also apply to Painier

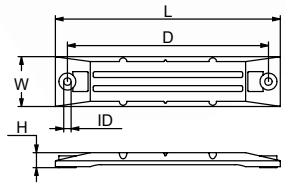


HONDA™ ANODES



	PID	LB	KG		L	W	H	D	ID	UPC
ZN	CM06411ZV5Z	0.79	0.36	mm	150	36	16	126	7	6 28309 11373 5
AL	CM06411ZV5A	0.31	0.14							6 28309 17552 8
MG	CM06411ZV5M	0.2	0.09	in	5.9	1.4	0.6	4.9	0.3	6 28309 17043 1

40/50 HP



	PID	LB	KG		L	W	H	D	ID	UPC
ZN	CM06411ZW1Z	1.83	0.83	mm	226	50	16	202	7	6 28309 11374 2
AL	CM06411ZW1A	0.72	0.33							6 28309 17554 2
MG	CM06411ZW1M	0.47	0.21	in	8.8	2	0.6	7.9	0.3	6 28309 17041 7

75 / 130 / 225 HP

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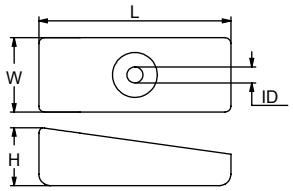
HONDA™ ANODES

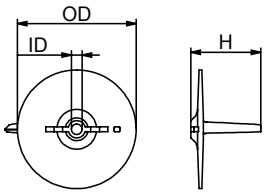
	PID	LB	KG		L	W	H	ID	UPC
ZN	CM41109ZW1003Z (CM826134Z)	**0.56**	0.25	mm	76	30	23	6	6 28309 24102 5
AL	CM41109ZW1003A (CM826134A)	**0.22**	0.1						6 28309 24168 1
MG	CM41109ZW1003M (CM826134M)	**0.15**	0.07	**in**	**3**	**1.16**	**0.9**	**0.25**	6 28309 24274 9

75 HP - V6 40/50 /115 EFI 4T

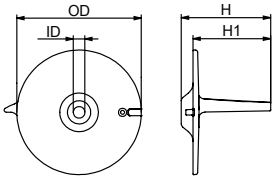


	PID	LB	KG		OD	H	ID	UPC
ZN	CM6644537101Z	**0.59**	0.27	mm	96	57	9	6 28309 10065 0
AL	CM6644537101A	**0.23**	0.1					6 28309 12643 8
MG	CM6644537101M	**0.16**	0.08	**in**	**3.8**	**2.2**	**0.33**	6 28309 10064 3

MARINER 10 - 50 HP YAMAHA 20 - 25 - 30 - 40- 50 HP

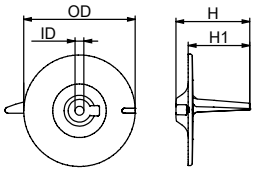


	PID	LB	KG		OD	H	H1	ID	UPC
ZN	CM41107ZV500Z	**0.63**	0.29	mm	95	68	59	8	6 28309 17045 5
AL	CM41107ZV500A	**0.25**	0.11						6 28309 12723 7
MG	CM41107ZV500M	**0.17**	0.09	**in**	**3.74**	**2.68**	**2.33**	**0.33**	6 28309 19291 4



	PID	LB	KG		OD	H	H1	ID	UPC
ZN	CM41107ZW1B01Z	**0.96**	0.44	mm	112	75	62	9	6 28309 19251 8
AL	CM41107ZW1B01A	**0.44**	0.20						6 28309 12726 8
MG	CM41107ZW1B01M	**0.28**	0.13	**in**	**4.4**	**2.9**	**2.4**	**0.33**	6 28309 19292 1

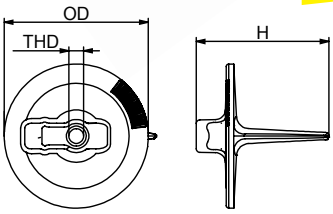
HONDA 75 - 90 - 115 -130 HP



*Remember: **Zinc** - Salt water only, **Aluminum** - Salt and Brackish water, **Magnesium** - Fresh water only.*

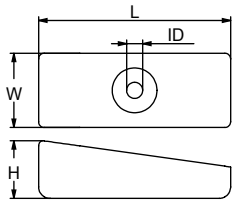
HONDA™ ANODES

	PID	LB	KG		OD	H	THD	UPC
ZN	CM411072ZW1003Z	1	0.45	mm	92	84	7/16 - 14 UNC	6 28309 24101 8
AL	CM411072ZW1003A	0.46	0.21					6 28309 24167 4
MG	CM411072ZW1003M	0.3	0.14	in	3.6	3.3		6 28309 24273 2

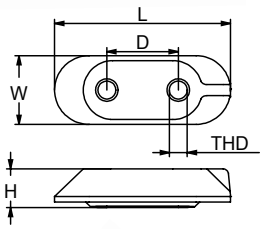


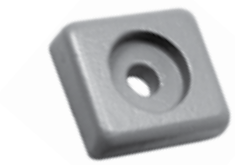
	PID	LB	KG		L	W	H	ID	UPC
ZN	CM41109ZW1B00Z	0.49	0.22	mm	71	36	17	6	6 28309 12735 0
AL	CM41109ZW1B00A	0.25	0.11						6 28309 12721 3
MG	CM41109ZW1B00M	0.17	0.09	in	2.8	1.4	0.7	0.24	6 28309 17044 8

HONDA 75 - 130 - 225 HP



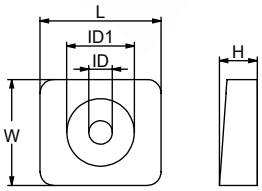
	PID	LB	KG		L	W	H	D	THD	UPC
ZN	CM6E04525111Z	0.22	0.1	mm	64	25	14	26	M6	6 28309 10069 8
AL	CM6E04525111A	0.09	0.04							6 28309 12647 6
MG	CM6E04525111M	0.05	0.02	in	2.5	1	0.5	1		6 28309 12648 3





	PID	LB	KG		L	W	H	ID	ID1	UPC
ZN	CM41106ZW9000Z	2.19	0.99	mm	32	28	10	6	18	6 28309 21127 1
				in	1.3	1.1	0.4	0.2	0.7	

HONDA 8 - 10 -15 HP



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HONDA™ ANODE KITS

ALL KITS INCLUDE FASTENING HARDWARE, INSTALLATION INSTRUCTIONS, AND ALL OF THE ANODES REQUIRED FOR 100% PROTECTION.

	PID	LB	KG	Contains	Fits	UPC
ZN	**CMHBF75115KITZ**	**4.27**	1.94	CM41107ZW1B01 X1 CM0641ZW1 X1 CM41109ZW1B00 X2	Honda BF75-90-115	6 28309 24955 7
AL	**CMHBF75115KITA**	**1.76**	0.8			6 28309 24953 3
MG	**CMHBF75115KITM**	**1.31**	0.596			6 28309 24954 0

	PID	LB	KG	Contains	Fits	UPC
ZN	**CMHBF4050KITZ**	**2.66**	1.21	CM41107ZV500 X 1 CM06411ZV5 X 1 CM41109ZW1003 / CM826134 X 2	Honda BF40-50HP OB-Motor	6 28309 25983 9
AL	**CMHBF4050KITA**	**1.17**	0.53			6 28309 26007 1
MG	**CMHBF4050KITM**	**0.79**	0.36			6 28309 26029 3

	PID	LB	KG	Contains	Fits	UPC
ZN	**CMHBF35225KITZ**	**2.79**	1.27	CM41107ZV500 X 1 CM06411ZV5 X 1 CM41109ZW1003 / CM826134 X 2 CM5532187J00 X 2	Honda BF35-225 Motor	6 28309 25982 2
AL	**CMHBF35225KITA**	**1.23**	0.56			6 28309 26006 4
MG	**CMHBF35225KITM**	**0.86**	0.39			6 28309 26028 6

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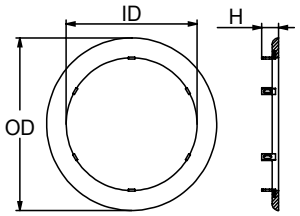
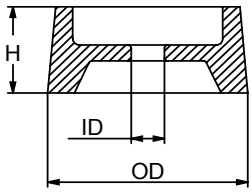
Find more online at **www.martyranodes.com**

KAMEWA™ ANODES



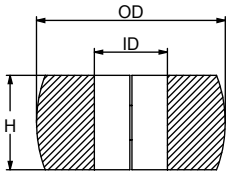
	PID	LB	KG		OD	ID	H	UPC
ZN	CMKA614Z	16	7.3	mm	385	287	25	6 28309 23684 7
				in	15.2	11.3	1	
ZN	CMKA615Z	2.86	1.3	mm	160	106	50	6 28309 23687 8
				in	6.3	4.2	1.97	
ZN	CMKA616Z	6.44	2.9	mm	226	126	47	6 28309 23690 8
				in	8.9	4.9	1.85	

JET FF 375S - CLASS V2000



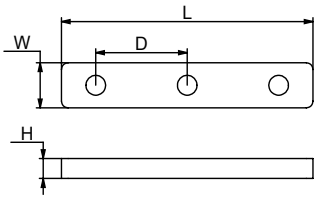
	PID	LB	KG		OD	ID	H	UPC
ZN	CMKA617Z	0.91	0.41	mm	70	13	27	6 28309 23693 9
				in	2.75	0.51	1.1	
ZN	CMKA730Z	1.90	0.86	mm	79	17	42	6 28309 23711 0
				in	3.11	0.67	1.65	

JET FF 375S - CLASS V2000



	PID	LB	KG		OD	ID	H	UPC
ZN	CMKA618Z	1.67	0.76	mm	78	50	45	6 28309 22086 0
				in	3.1	2	1.8	
ZN	CMKA619Z	2.18	0.99	mm	90	60	48	6 28309 23699 1
				in	3.5	2.4	1.9	

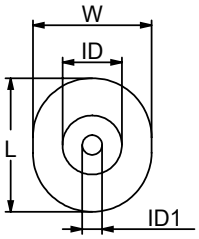
A SERIES



	PID	LB	KG		L	W	D	H	UPC
ZN	CMKA620Z	10.14	4.60	mm	385	68	140	30	6 28309 22927 6
				in	15	2.7	5.5	1.2	
ZN	CMKA621Z	29.32	13.30	mm	600	100	220	40	6 28309 23702 8
				in	23.6	3.9	8.6	1.6	

KAMEWA TYPE

	PID	LB	KG		L	W	H	H1	ID	ID1	UPC
ZN	CMKA622Z	2.1	0.48	mm	68	60	27	25	32	12	6 28309 22087 7
				in	2.7	2.4	1.1	1	1.3	0.48	



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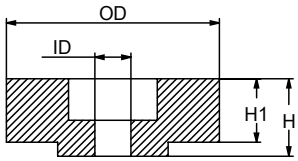
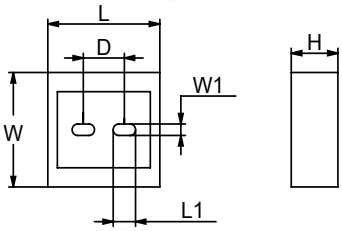
KAMEWA™ ANODES

	PID	LB	KG		OD	ID	H	H1	UPC
ZN	CMKA623Z	1.64	0.74	mm	77	12	25	23	6 28309 22088 4
				in	3	0.48	0.98	0.9	

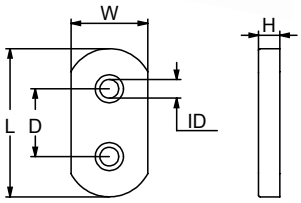


	PID	LB	KG		L	L1	W	W1	D	H	UPC
ZN	CMKA624Z	1	0.46	mm	60	12	60	7	18	25	6 28309 23051 7
				in	2.4	0.47	2.4	0.28	0.71	1	

JET FF 375S - CLASS V2000



	PID	LB	KG		L	W	H	D	ID	UPC
ZN	SGPL573Z	4.85	2.2	mm	175	90	25	80	13	6 28309 18292 2
				in	6.9	3.54	1	3.15	0.51	

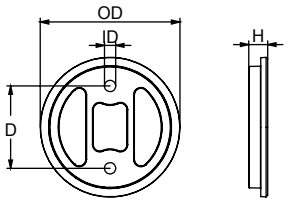


MERCURY MARINE™ ANODES

	PID	LB	KG		OD	ID	H	D	UPC
ZN	CM847635001Z	2.223	1.008	mm	129.28	10.41	17.52	76.2	6 28309 25537 4
AL	CM847635001A	0.853	0.387						6 28309 25542 8
MG	CM847635001M	0.650	0.295	in	5.09	0.41	0.69	3	6 28309 25547 3

NEW

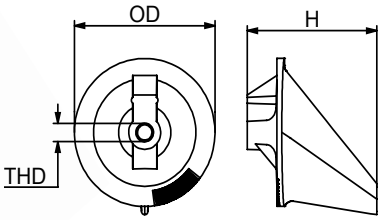
Mercury Racing OB Trim
VERADO 350 CI - 6 CYLINDER - 4 TIMES



MERCURY™ MERCRUISER™ ANODES

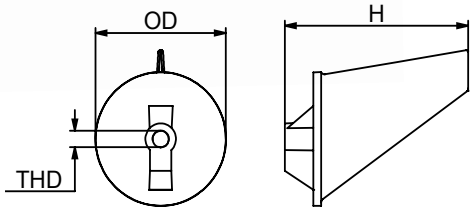
	PID	LB	KG		OD	H	THD	UPC
ZN	CM31640Z	1.21	0.55	mm	92	84	7/16 - 14 UNC	6 28309 10011 7
AL	CM31640A	0.46	0.21					6 28309 11548 7
MG	CM31640M	0.3	0.14	in	3.6	3.3		6 28309 10010 0

MERCURY 50HP

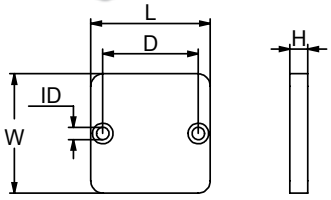


	PID	LB	KG		OD	H	THD	UPC
ZN	CM34127Z	1.3	0.59	mm	89	127	7/16 - 14 UNC	6 28309 10019 3
AL	CM34127A	0.49	0.22					6 28309 12698 8
MG	CM34127M	0.32	0.15	in	3.5	5		6 28309 19284 6

MERCRUISER 80 - 140 HP

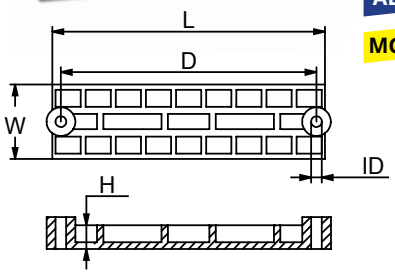


	PID	LB	KG		L	W	H	D	ID	UPC
ZN	CM34762Z	0.53	0.24	mm	64	64	10	51	6	6 28309 10020 9
AL	CM34762A	0.2	0.09							6 28309 12697 1
MG	CM34762M	0.13	0.06	in	2.5	2.5	0.38	2	0.25	6 28309 19285 3



	PID	LB	KG		L	W	H	D	ID	UPC
ZN	CM43396Z	1.45	0.66	mm	192	52	17	178	7	6 28309 10051 3
AL	CM43396A	0.55	0.25							6 28309 12694 0
MG	CM43396M	0.34	0.15	in	7.56	2	0.6	7	0.29	6 28309 24275 6

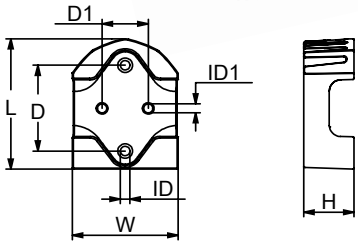
MERCURY 25 HP /50/60/75 - MERCRUISER E.B. 90 / 100 SINO 91 115/190 - SUPERAMERICA 80/115



MERCURY™ MERCRUISER™ ANODES

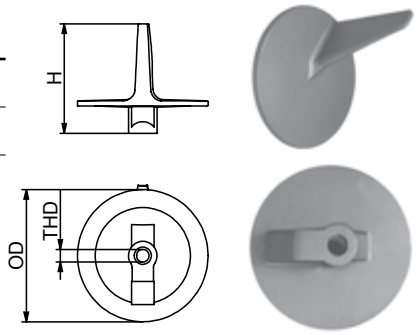
	PID	LB	KG		L	W	H	D	D1	ID	ID1	UPC
ZN	CM43994Z	2.09	0.95	mm	101	79	38	66	35	7	7	6 28309 10054 4
AL	CM43994A	0.79	0.36									6 28309 12696 4
MG	CM43994M	0.55	0.25	in	4	3.1	1.5	2.6	1.36	0.28	0.26	6 28309 10053 7

MERCURY F.BB - MERCRUISER E.B. / ALPHA GEN 2 + BRAVO



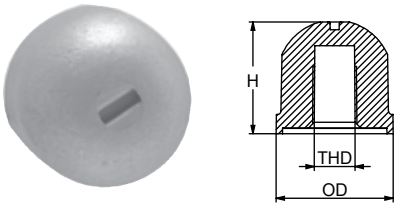
	PID	LB	KG		OD	H	THD	UPC
ZN	CM46399Z	0.80	0.36	mm	92	84	7/16 - 14 UNC	6 28309 10055 1
AL	CM46399A	0.3	0.14					6 28309 12695 7
MG	CM46399M	0.2	0.09	in	3.6	3.3		6 28309 19294 5

50 - 140 HP



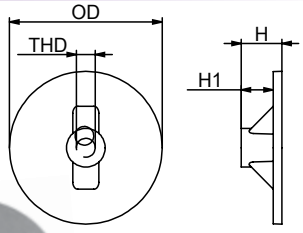
	PID	LB	KG		OD	H	THD	UPC
ZN	CM55989Z	0.24	0.11	mm	31	30	½ - 13 UNC	6 28309 10062 9
AL	CM55989A	0.09	0.04					6 28309 11540 1
MG	CM55989M	0.06	0.03	in	1.2	1.2		6 28309 10061 2

ALPHA ONE - BRAVO ONE

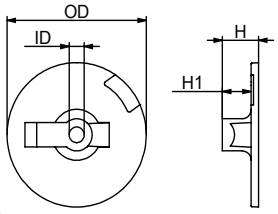


	PID	LB	KG		OD	H	H1	THD	UPC
ZN	CM76214Z	0.62	0.28	mm	90	24	19	7/16 - 14 UNC	6 28309 10085 8
AL	CM76214A	0.24	0.11						6 28309 15937 5
MG	CM76214M	0.15	0.07	in	3.54	0.94	0.75		6 28309 11323 0

VERADO AND BRAVO



	PID	LB	KG		OD	ID	H	H1	UPC
ZN	CM762144Z	0.68	0.31	mm	92	24	19	13	6 28309 12315 4
AL	CM762144A	0.29	0.13						6 28309 12316 1
MG	CM762144M	0.18	0.08	in	3.63	0.94	0.75	0.5	6 28309 12314 7



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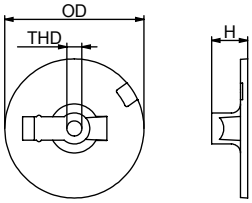
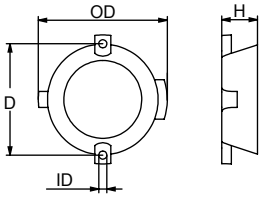
MERCURY™ MERCRUISER™ ANODES



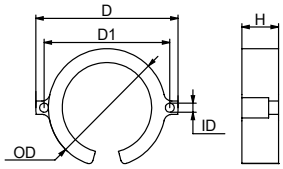
	PID	LB	KG		OD	H	THD	UPC
ZN	CM762145Z	0.73	0.33	mm	92	24	7/16 - 14 UNC	6 28309 11368 1
AL	CM762145A	0.29	0.13					6 28309 11542 5
MG	CM762145M	0.17	0.08	in	3.6	0.9		6 28309 12310 9

MERCURY ALPHA



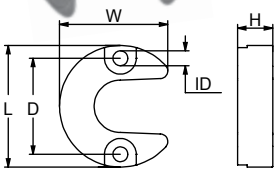
	PID	LB	KG		OD	ID	H	D	UPC
ZN	CM806105Z	0.5	0.23	mm	85	5	24	74	6 28309 10089 6
AL	CM806105A	0.2	0.09						6 28309 11545 6
MG	CM806105M	0.13	0.06	in	3.3	0.2	0.9	2.9	6 28309 11497 8

MERCRUISER ALPHA ONE - ALPHA 2 GEN.



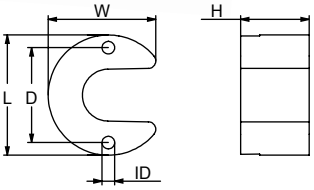
	PID	LB	KG		OD	ID	D	D1	H	UPC
ZN	CM806188Z	0.33	0.15	mm	70	5	84	74	23	6 28309 11520 3
AL	CM806188A	0.13	0.06							6 28309 11537 1
MG	CM806188M	0.08	0.04	in	2.75	0.2	3.3	2.91	0.9	6 28309 12258 4

BRAVO 1 AND BRAVO 3



	PID	LB	KG		L	W	H	D	ID	UPC
ZN	CM806189Z	0.22	0.1	mm	49	44	14	38	5	6 28309 10096 4
AL	CM806189A	0.09	0.04							6 28309 11538 8
MG	CM806189M	0.06	0.03	in	1.9	1.7	0.5	1.5	0.2	6 28309 10095 7

PISTONS MERCRUISER ALPHA



	PID	LB	KG		L	W	H	D	ID	UPC
ZN	CM806190Z	0.77	0.35	mm	51	46	51	38	51	6 28309 10099 5
AL	CM806190A	0.3	0.14							6 28309 11541 8
MG	CM806190M	0.19	0.09	in	2	1.8	0.2	1.5	2	6 28309 11496 1

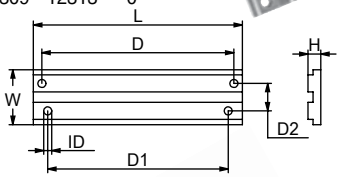
PISTONS MERCRUISER BRAVO

*Remember: **Zinc** - Salt water only, **Aluminum** - Salt and Brackish water, **Magnesium** - Fresh water only.*

MERCURY™ MERCRUISER™ ANODES

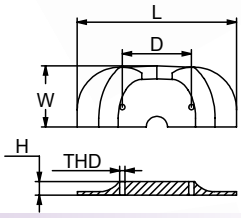
	PID	LB	KG		L	W	H	D	D1	D2	ID	UPC
ZN	CM818298Z	1.45	0.66	mm	194	51	12	178	167	25	7	6 28309 10020 9
AL	CM818298A	0.57	0.26									6 28309 11547 0
MG	CM818298M	0.36	0.16	in	7.62	2.00	0.47	7.00	6.58	1.00	0.27	6 28309 12313 0

40 HP A V6 135/ 150 /175 VERADO



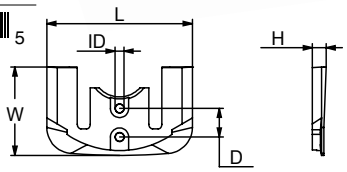
	PID	LB	KG		L	W	H	D	THD	UPC
ZN	CM821629CZ	1.72	0.78	mm	191	73	16	83	¼ - 20 UNC	6 28309 10110 7
AL	CM821629CA	0.66	0.3							6 28309 11546 3
MG	CM821629CM	0.44	0.2	in	7.5	2.88	0.64	3.25		6 28309 11379 7

ALPHA ONE - ALPHA 2 GEN.



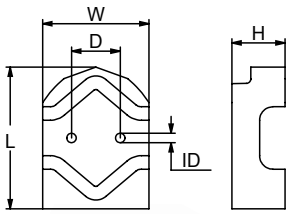
	PID	LB	KG		L	W	H	D	ID	UPC
ZN	CM821630C2Z	2.2	1	mm	178	108	14	35	11	6 28309 10113 8
AL	CM821630C2A	0.86	0.39							6 28309 11539 5
MG	CM821630C2M	0.57	0.26	in	7	4.25	0.56	1.38	0.44	6 28309 11498 5

BRAVO 1 / 2 / 3



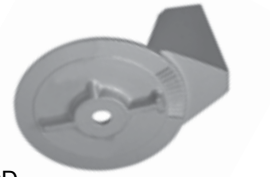
	PID	LB	KG		L	W	H	D	ID	UPC
ZN	CM821631Z	1.96	0.89	mm	102	76	38	35	7	6 28309 10054 4
AL	CM821631A	0.77	0.35							6 28309 11549 4
MG	CM821631M	0.53	0.24	in	4	3	1.5	1.38	0.27	6 28309 10053 7

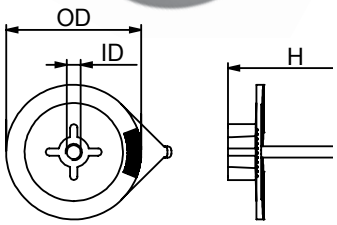
MERCURY F.BB - MERCRUISER E.B.



	PID	LB	KG		OD	ID	H	UPC
ZN	CM822157C2Z	1.06	0.48	mm	93	9	82	6 28309 11371 1
AL	CM822157C2A	0.42	0.19					6 28309 19598 4
MG	CM822157C2M	0.28	0.13	in	3.65	0.36	3.2	6 28309 19601 1

F25- F50





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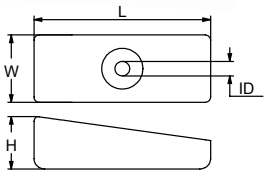
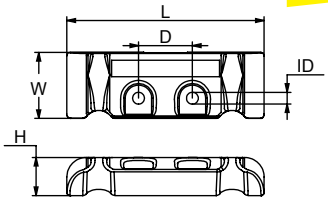
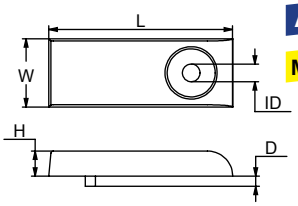
MERCURY™ MERCRUISER™ ANODES



	PID	LB	KG		L	W	H	ID	UPC
ZN	CM826134Z	0.56	0.25	mm	76	30	23	6	6 28309 10123 7
AL	CM826134A	0.22	0.1						6 28309 11543 2
MG	CM826134M	0.15	0.07	in	3	1.16	0.9	0.25	6 28309 12354 3

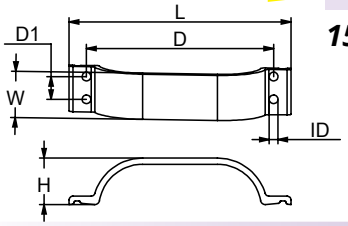


	PID	LB	KG		L	W	H	D	ID	UPC
ZN	CM880653Z	1.1	0.5	mm	128	43	25	35	7	6 28309 12322 2
AL	CM880653A	0.44	0.2							6 28309 12319 2
MG	CM880653M	0.28	0.13	in	5	1.7	1	1.4	0.27	6 28309 15989 4

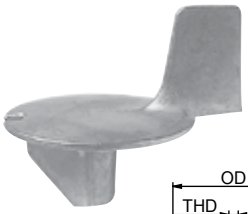


	PID	LB	KG		L	W	H	D	ID	UPC
ZN	CM892227Z	0.23	0.1	mm	74	27	10	4	7	6 28309 12321 5
AL	CM892227A	0.09	0.04							6 28309 12320 8
MG	CM892227M	0.06	0.03	in	2.9	1.1	0.4	0.2	0.26	6 28309 15990 0

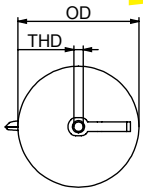
	PID	LB	KG		L	W	H	D	D1	ID	UPC
ZN	CM89949Z	2.36	1.07	mm	280	59	60	239	29	12	6 28309 11369 8
AL	CM89949A	0.92	0.42								6 28309 12579 0
MG	CM89949M	0.62	0.28	in	11	2.3	2.35	9.4	1.15	0.45	6 28309 19302 7

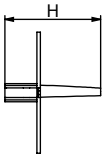


150 / 200 HP



	PID	LB	KG		OD	H	THD	UPC
ZN	CM984325Z	0.93	0.42	mm	91	100	M8	6 28309 11519 7
AL	CM984325A	0.36	0.16					6 28309 12699 5
MG	CM984325M	0.24	0.11	in	3.6	3.95		6 28309 19303 4





AMERICA 25 HP (FROM 1990)

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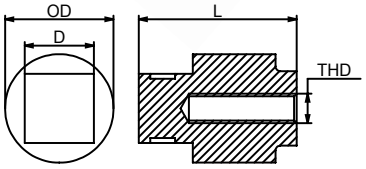
MERCURY™ MERCRUISER™ ANODES

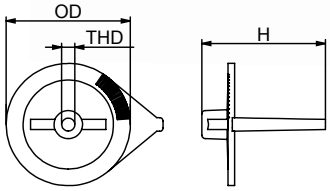
	PID	LB	KG		L	OD	H	THD	UPC
ZN	CM804079002Z	0.14	0.06	mm	55	22	32	M6	6 28309 21137 0
				in	2.2	0.9	1.3		

YAMAHA 80 - 90 -100 -115 -200 - 225 -250 -300 HP



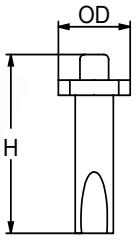
	PID	LB	KG		OD	H	THD	UPC
ZN	CM822777Z	1.48	0.67	mm	90	83	7/16 - 14 UNC	6 28309 24112 4
				in	3.5	3.3		

35 HP - V6 MCM

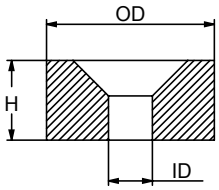


	PID	LB	KG		OD	H	UPC
ZN	CM826887MZ	0.03	0.02	mm	16	40	6 28309 24113 1
				in	0.6	1.6	

Also apply to Yamaha, Parsun

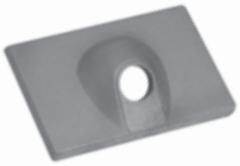


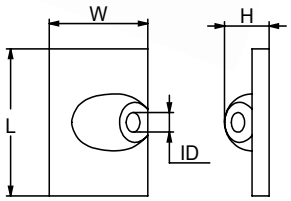
	PID	LB	KG		OD	H	ID	UPC
ZN	CM823912Z	0.04	0.02	mm	21	10	6	6 28309 23499 7
				in	0.83	0.39	0.24	



	PID	LB	KG		L	W	H	ID	UPC
ZN	CM42121Z	0.07	0.03	mm	42	29	11	7	6 28309 20933 9
AL	CM42121A	0.03	0.01	in	1.66	1.1	0.42	0.28	6 28309 20954 4
MG	CM42121M	0.02	0.01						6 28309 20975 9

MERCURY 6-9.9 HP





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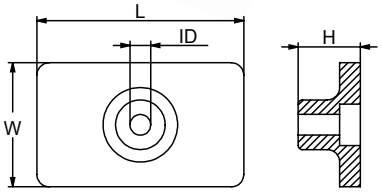
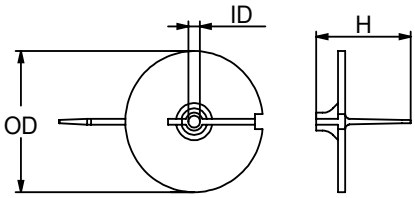
Find more online at **www.martyranodes.com**

MERCURY™ MERCRUISER™ ANODES



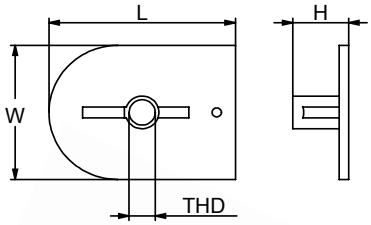
	PID	LB	KG		L	W	H	ID	UPC
ZN	CM85824A3Z	0.08	0.04	mm	50	30	13	6	6 28309 23519 2
				in	2	1.2	0.5	0.25	

MERCURY 4.5-9.9 HP



	PID	LB	KG		OD	ID	H	UPC
ZN	CM94286T1Z	0.62	0.28	mm	95	9	65	6 28309 23525 3
				in	3.7	0.33	2.6	

OUTBOARD 25 HP

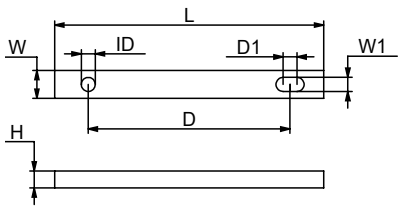


	PID	LB	KG		L	W	H	THD	UPC
ZN	CM47820A1Z	0.73	0.33	mm	100	74	30	5/16 - 18 UNC	6 28309 23352 5
				in	3.9	2.9	1.2		

OUTBOARD 20 HP

	PID	LB	KG		L	W	W1	H	D	D1	ID	UPC
ZN	CM825271Z	0.65	0.29	mm	193	19	6	12	167	8	6	6 28309 20937 7
AL	CM825271A	0.25	0.11	in	7.6	0.75	0.25	0.5	6.58	0.32	0.25	6 28309 20958 2
MG	CM825271M	0.16	0.07									6 28309 20979 7

25-30-40 HP 4T



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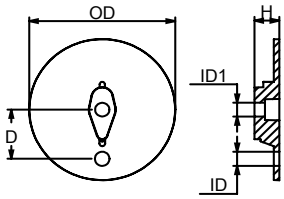
MERCURY™ MERCRUISER™ ANODES

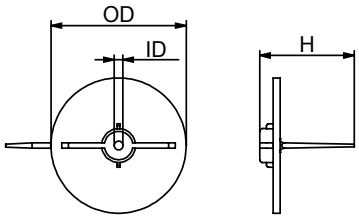
	PID	LB	KG		OD	ID	H	D	ID1	UPC
ZN	CM76214Q5Z	0.73	0.33	mm	112	11	19	39	11	6 28309 21136 3
				in	4.4	0.43	0.7	1.54	0.43	

BRAVO4 225-250 HP



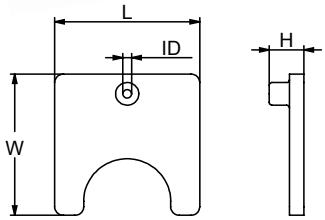
	PID	LB	KG		OD	ID	H	UPC
ZN	CM17264C1Z	1	0.46	mm	102	12	70	6 28309 17436 1
				in	4	0.5	2.7	

FORMULA 60 HP



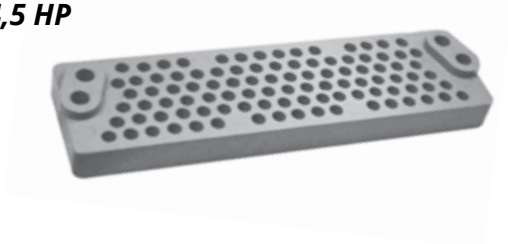
	PID	LB	KG		L	W	H	ID	UPC
ZN	CM09411Z	0.12	0.05	mm	50	50	12	7	6 28309 23325 9
				in	2	2	0.5	0.27	

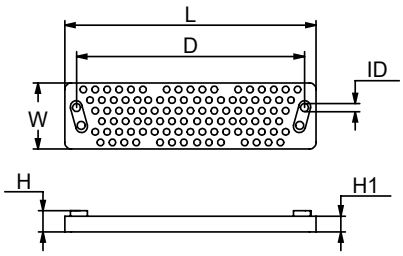
MERCURY 4,5-7 HP



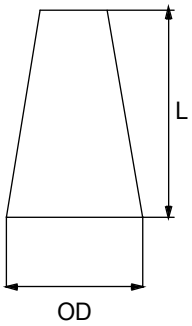
	PID	LB	KG		L	W	H	H1	D	ID	UPC
ZN	CM8239121Z	2	0.91	mm	190	50	20	16	7	178	6 28309 23496 6
				in	7.5	1.97	0.79	0.63	0.28	7	

MERCURY 50-75 HP MERCRUISER 90-100 HP
SUPER AMERICA 80-155 HP
NISSAN - TOHATSU 4,5 HP



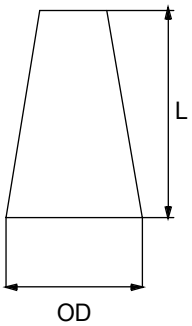


MERCRUISER™ ENHANCED PROTECTION PROP NUT



	PID	LB	KG		Shaft	L	OD	THD	Fastener	UPC
ZN	CMPNDZF14UNS	6.75	3.07	mm	25	78	54	1"-14 UNS	Fastener 5/16- 18x1 socket head w/ patch	6 28309 12231 7
AL	CMPNDAF14UNS	2.62	1.19							6 28309 12259 1
MG	CMPNDMF14UNS	1.69	0.77	in	1	3.06	2.12			6 28309 12264 5

FITS PROP SHAFTS FOR BRAVO III 2003 and Older

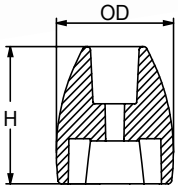


	PID	LB	KG		Shaft	L	OD	THD	Fastener	UPC
ZN	CMPNCZF16	1.38	0.63	mm	29	76	48	3/4" - UNF16	Fastener 5/16- 18x1 socket head w/ patch	6 28309 10832 8
AL	CMPNCAF16	0.78	0.35							6 28309 12373 4
MG	CMPNCMF16	0.65	0.3	in	1.12	3	1.87			6 28309 11345 2

FITS PROP SHAFTS FOR ALPHA I & BRAVO I

	PID	LB	KG		Shaft	L	OD	THD	Fastener	UPC
ZN	CMPNEZF14	2.5	1.14	mm	35	89	60	1"- 14 UNS	Fastener 5/16-18x1 socket head w/ patch	6 28309 11510 4
AL	CMPNEAF14	1.43	0.65							6 28309 12566 0
MG	CMPNEMF14	1.2	0.54	in	1.37	3.5	2.37			6 28309 12054 2

FITS PROP SHAFTS FOR BRAVO II



	PID	LB	KG		H	OD	Fastener	UPC
ZN	CM865182CZ	1.12	0.51	mm	61	53	5/16- 18x1 ½	6 28309 12358 1
AL	CM865182CA	0.42	0.19					6 28309 12329 1
MG	CM865182CM	0.27	0.12	in	2.4	2.1		6 28309 12344 4

FITS PROP SHAFTS FOR BRAVO III 2004 to Present

*Remember: **Zinc** - Salt water only, **Aluminum** - Salt and Brackish water, **Magnesium** - Fresh water only.*

MERCURY™ ANODE KITS

ALL KITS INCLUDE FASTENING HARDWARE, INSTALLATION INSTRUCTIONS, AND ALL OF THE ANODES REQUIRED FOR 100% PROTECTION.

	PID	LB	KG	Contains	Fits	UPC
AL	CMVERADO4KITA	1.72	0.78	CM818298 X 1 CM826134 X 2 CM762145 X 1	Verado 4 / OPTIMAX Engine	6 28309 12272 0
MG	CMVERADO4KITM	1.23	0.56			6 28309 16576 5

	PID	LB	KG	Contains	Fits	UPC
AL	CMVERADO6KITA	1.96	0.89	CM880653 X 1 CM892227 X 4 CM826134 X 2 CM762145 X 1	Verado 6 Engine	6 28309 12273 7
MG	CMVERADO6KITM	1.41	0.64			6 28309 16577 2

	PID	LB	KG	Contains	Fits	UPC
ZN	CMALPHAGEN1KITZ	3.65	1.66	CM31640 X 1 CM55989 X 2 CM821631 X 1	Alpha I Generation I Engine 1983 - 1990	6 28309 12809 8
AL	CMALPHAGEN1KITA	1.41	0.64			6 28309 12807 4
MG	CMALPHAGEN1KITM	0.95	0.43			6 28309 12808 1

	PID	LB	KG	Contains	Fits	UPC
ZN	CMALPHAKITZ	5.61	2.55	CM762145 X 1 CM806105 X 1 CM821629 X 1 CM821631 X 1 CM806189 X 2	Alpha I Generation II Engine 1991 - present	6 28309 12611 7
AL	CMALPHAKITA	2.58	1.17			6 28309 11552 4
MG	CMALPHAKITM	1.83	0.83			6 28309 12263 8

	PID	LB	KG	Contains	Fits	UPC
ZN	CMBRAVO1KITZ	5.35	2.43	CM762145 X 1 CM806188 X 1 CM821630 X 1 CM806190 X 2	Bravo I Engine 1988 - present	6 28309 12612 4
AL	CMBRAVO1KITA	2.44	1.11			6 28309 11553 1
MG	CMBRAVO1KITM	1.82	0.83			6 28309 12261 4

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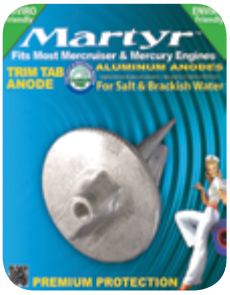
MERCURY™ ANODE KITS

	PID	LB	KG	Contains	Fits	UPC
ZN	CMBRAVO23KITZ	5.02	2.28	CM762145 X 1 CM821630 X 1 CM806190 X 2	Bravo II 1989 - present & Bravo III 1989 - 2003	6 28309 12613 1
AL	CMBRAVO23KITA	2.31	1.05			6 28309 11554 8
MG	CMBRAVO23KITM	1.72	0.78			6 28309 12262 1

	PID	LB	KG	Contains	Fits	UPC
ZN	CMBRAVO3KITZ	6.57	2.98	CM762144 X 1 CM762145 X 1 CM865182C X 1 CM821630 X 1 CM806190 X 2	Bravo III Engine 2004 - present	6 28309 12614 8
AL	CMBRAVO3KITA	3.02	1.37			6 28309 12473 1
MG	CMBRAVO3KITM	2.16	0.98			6 28309 12578 3



	PID	LB	KG	Fits	UPC
AL	CM31640KITA	0.62	0.28	Alpha I Generation I Engine	6 28309 12291 1
MG	CM31640KITM	0.5	0.23		6 28309 12307 9
AL	CM55989KITA	0.36	0.16	Alpha I Generation I Engine	6 28309 12301 7
MG	CM55989KITM	0.3	0.14		6 28309 12281 2
AL	CM762144KITA	0.49	0.22	Bravo III Engine 2004 - present	6 28309 12293 5
MG	CM762144KITM	0.38	0.17		6 28309 12309 3
AL	CM762145KITA	0.5	0.23	Alpha I Generation II Engine, Bravo I, Bravo II, Bravo III, Verado 4, 6	6 28309 12294 2
MG	CM762145KITM	0.37	0.17		6 28309 11544 9
AL	CM806105KITA	0.38	0.17	Alpha I Generation II Engine	6 28309 12297 3
MG	CM806105KITM	0.31	0.14		6 28309 12277 5
AL	CM806188KITA	0.13	0.06	Bravo I 1988 - present	6 28309 12298 0
MG	CM806188KITM	0.1	0.05		6 28309 12278 2
AL	CM806189KITA	0.36	0.16	Alpha I Generation II Engine	6 28309 12295 9
MG	CM806189KITM	0.3	0.14		6 28309 12305 5
AL	CM806190KITA	0.8	0.36	Bravo I 1988 - present, Bravo II 1989 - present & Bravo III 1989 - 2003	6 28309 12296 6
MG	CM806190KITM	0.58	0.26		6 28309 12306 2
AL	CM818298KITA	0.8	0.36	Verado 4 /OPTIMAX Engine	6 28309 12303 1
MG	CM818298KITM	0.58	0.26		6 28309 12283 6
AL	CM821629KITA	0.88	0.4	Alpha I Generation II Engine	6 28309 12299 7
MG	CM821629KITM	0.66	0.3		6 28309 12279 9
AL	CM821630KITA	1.08	0.49	Bravo I 1988 - present, Bravo II 1989 - present & Bravo III 1989 - 2003	6 28309 12300 0
MG	CM821630KITM	0.79	0.36		6 28309 12280 5
AL	CM821631KITA	1	0.45	Alpha I Generation I Engine, Alpha I Generation II Engine	6 28309 12292 8
MG	CM821631KITM	0.71	0.32		6 28309 12308 6
AL	CM821634KITA	0.62	0.28	Verado 4 /OPTIMAX Engine	6 28309 12302 4
MG	CM821634KITM	0.46	0.21		6 28309 12282 9
AL	CM865182KITA	0.74	0.28	Bravo III Engine 2004 - present	6 28309 12345 1
MG	CM865182KITM	0.59	0.27		6 28309 12346 8

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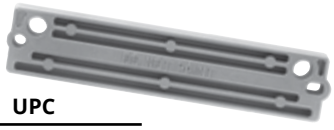
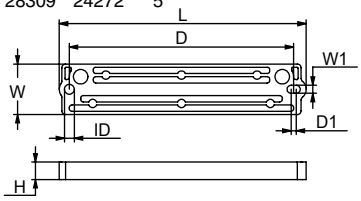
NISSAN™ TOHATSU™ ANODES

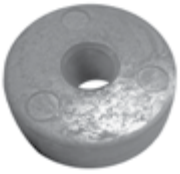


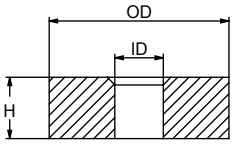
	PID	LB	KG		L	W	W1	H	D	D1	ID	UPC
ZN	CM3C7602181Z	1.12	0.51	mm	196	40	6	14	178	4	8	6 28309 24100 1
AL	CM3C7602181A	0.46	0.21									6 28309 24166 7
MG	CM3C7602181M	0.28	0.13	in	7.7	1.6	0.25	0.5	7	0.16	0.31	6 28309 24272 5



	PID	LB	KG		OD	ID	H	UPC
ZN	CM5338602182A0Z	0.46	0.21	mm	24	7	8	6 28309 17445 3
AL	CM5338602182A0A	0.02	0.01					6 28309 17567 2
MG	CM5338602182A0M	0.01	0.01	in	0.9	0.3	0.3	6 28309 23924 4

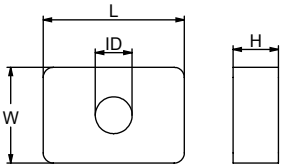
Also apply to Hidea





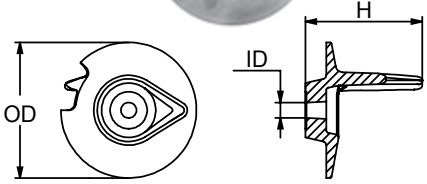
	PID	LB	KG		L	W	H	ID	UPC
ZN	CM3H660218000Z	0.06	0.03	mm	28	19	9	6	6 28309 17562 7
AL	CM3H660218000A	0.02	0.01						6 28309 17442 2
MG	CM3H660218000M	0.01	0.01	in	1.1	0.7	0.4	0.25	6 28309 18317 2

Also apply to Parsun & ShenFeng



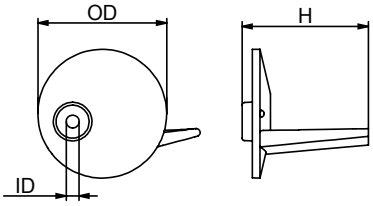
	PID	LB	KG		OD	ID	H	UPC
ZN	CM3V1602170Z	0.22	0.1	mm	55	6	48	6 28309 17443 9
AL	CM3V1602170A	0.09	0.04					6 28309 17563 4
MG	CM3V1602170M	0.06	0.03	in	2.2	0.25	1.9	6 28309 19290 7

140 HP
Also apply to Hidea



	PID	LB	KG		OD	ID	H	UPC
ZN	CM348602170Z	0.28	0.13	mm	50	6	50	6 28309 23141 5
				in	2	0.25	2	

FIN 25-40 HP



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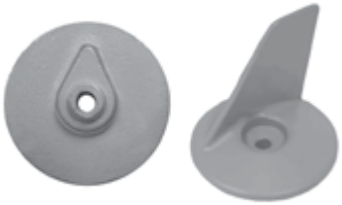
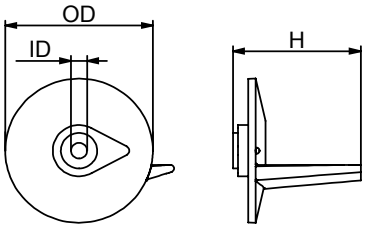
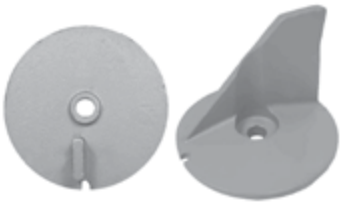
NISSAN™ TOHATSU™ ANODES

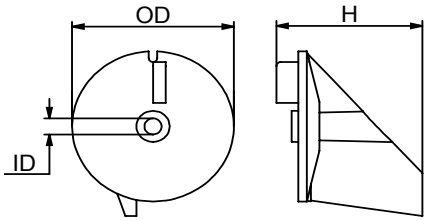




	PID	LB	KG		OD	ID	H	UPC
ZN	CM3C8602170Z	0.47	0.14	mm	59	6	51	6 28309 21126 4
				in	2.3	0.25	2	

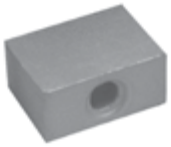
MEGA 25-50 HP

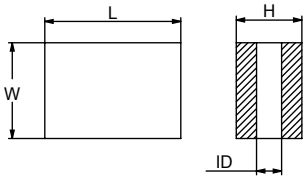




	PID	LB	KG		OD	ID	H	UPC
ZN	CM3B76021700Z	0.76	0.35	mm	77	8	70	6 28309 21125 7
				in	3	0.3	2.76	

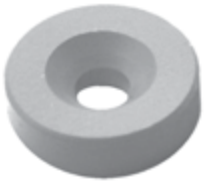
60-70-90-120-140 HP

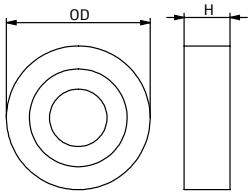




	PID	LB	KG		L	W	H	ID	UPC
ZN	CM3B7602181Z	0.09	0.04	mm	27	19	13	7	6 28309 23142 2
				in	1.1	0.7	0.5	0.28	

MEGA ENGINES





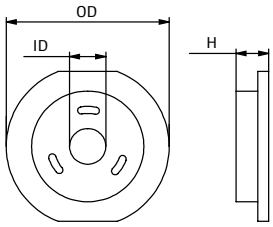
	PID	LB	KG		OD	H	UPC
ZN	CM369602181Z	0.04	0.02	mm	25	8	6 28309 24099 8
				in	1	0.3	

2.5-8 HP

NISSAN™ TOHATSU™ ANODES

	PID	LB	KG		OD	ID	H	UPC
ZN	CM3M2602181Z	0.1	0.05	mm	45	7	9	6 28309 23143 9
				in	1.8	0.26	0.4	

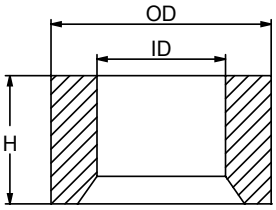
40-140 HP



PAINIER™ ANODES

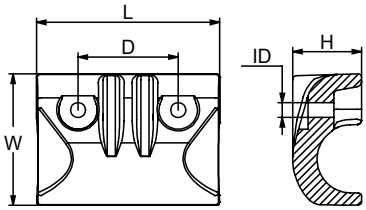
	PID	LB	KG		OD	ID	H	UPC
ZN	CM6634525100Z	0.09	0.04	mm	24	7	14	6 28309 19533 5
AL	CM6634525100A	0.03	0.02					6 28309 19531 1
MG	CM6634525100M	0.02	0.01	in	0.9	0.3	0.6	6 28309 19532 8

YAMAHA 40 - 50 -70 - 90 - HP UP TO 1987



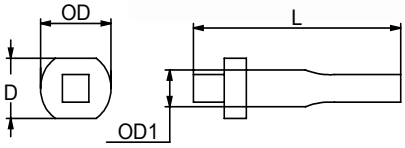
	PID	LB	KG		L	W	H	D	ID	UPC
ZN	CM63D4525101Z	1.28	0.58	mm	86	62	32	47	7	6 28309 19530 4
AL	CM63D4525101A	0.49	0.22							6 28309 19528 1
MG	CM63D4525101M	0.31	0.14	in	3.4	2.4	1.3	1.9	0.3	6 28309 19529 8

YAMAHA 40 - 50 HP



	PID	LB	KG		L	OD	OD1	D	UPC
ZN	CM6H31132501Z	0.46	0.21	mm	68	16	8	13	6 28309 19536 6
AL	CM6H31132501A	0.02	0.01						6 28309 19534 2
MG	CM6H31132501M	0.01	0.01	in	2.7	0.6	0.3	0.5	6 28309 19535 9

YAMAHA 200 - 225 - 250 HP UP TO 2003



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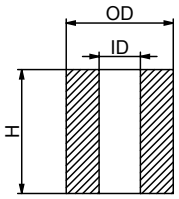
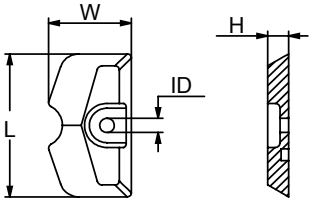
PARSUN™ ANODES



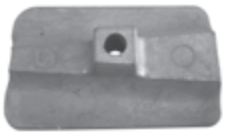
	PID	LB	KG		OD	ID	H	UPC
ZN	CM6G81132500Z	0.03	0.01	mm	13	5	15	6 28309 23151 4
AL	CM6G81132500A	0.01	0.01					6 28309 23163 7
MG	CM6G81132500M	0.01	0.01	in	0.5	0.2	0.6	6 28309 23177 4

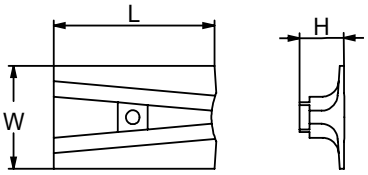
Also apply to YAMAHA 4 - 6 -8 -9 - 9,9 -15 -20 -25 - 30 - 40 - 50 - 60 - 70 HP, ALLPASS, Hidea, Tiger & Painier



	PID	LB	KG		L	W	H	ID	UPC
ZN	CM6L5452510300Z	0.13	0.06	mm	60	34	9	6	6 28309 23152 1
AL	CM6L5452510300A	0.05	0.02						6 28309 23164 4
MG	CM6L5452510300M	0.03	0.02	in	2.4	1.3	0.3	0.2	6 28309 23178 1

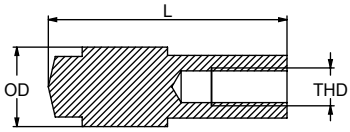
Also apply to Yamaha, ALLPASS, Hidea, Tiger, Painier & Shenfeng





	PID	LB	KG		L	W	H	UPC
ZN	CM8018Z	0.03	0.01	mm	80	50	22	6 28309 19542 7
AL	CM8018A	0.01	0.01					6 28309 19540 3
MG	CM8018M	0.01	0.01	in	3.1	2	0.9	6 28309 19541 0

Also apply to Yamaha



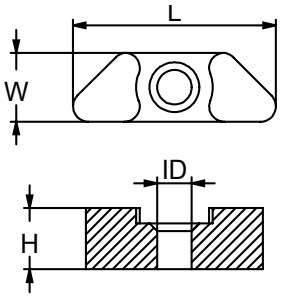
	PID	LB	KG		L	OD	THD	UPC
ZN	CM66M1132500Z	0.03	0.01	mm	32	11	5	6 28309 23144 6
AL	CM66M1132500A	0.011	0.005					6 28309 23156 9
MG	CM66M1132500M	0.006	0.003	in	1.3	0.4	0.2	6 28309 23170 5

Also apply to YAMAHA 9,9 - 15 - 200 - 225 -250 - 300 HP, ALLPASS, Hidea & Tiger

PARSUN™ ANODES

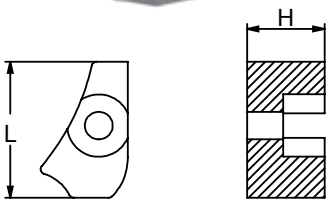
	PID	LB	KG		L	W	H	ID	UPC
ZN	CM6E51132500Z	0.02	0.01	mm	27	9	10	5	6 28309 23150 7
AL	CM6E51132500A	0.008	0.004						6 28309 23162 0
MG	CM6E51132500M	0.004	0.002	in	1.1	0.4	0.4	0.2	6 28309 23176 7

Also apply to YAMAHA 6 - 9,9 - 15 -20 - 75 -90 - 115 - 130 - 150 - 175 - 200 - 225 - 250 - 300 - 350 HP, ALLPASS, Hidea, Tiger & Painier



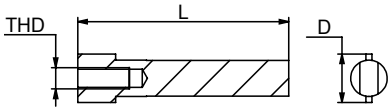
	PID	LB	KG		L	H	UPC
ZN	CM6821132500Z	0.04	0.02	mm	27	15	6 28309 23147 7
AL	CM6821132500A	0.008	0.004				6 28309 23159 0
MG	CM6821132500M	0.006	0.003	in	1.1	0.6	6 28309 23173 6

YAMAHA 9,9 - 15 HP
Also apply to ALLPASS, Hidea, Tiger & Painier



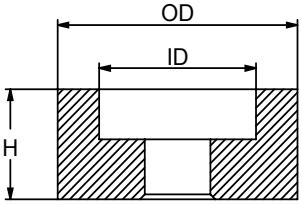
	PID	LB	KG		L	D	THD	UPC
ZN	CM62Y1132500Z	0.04	0.02	mm	49	11	5	6 28309 21133 2
AL	CM62Y1132500A	0.01	0.01					6 28309 21157 8
MG	CM62Y1132500M	0.01	0.01	in	1.9	0.4	0.2	6 28309 21178 3

Also apply to YAMAHA 25 - 30 - 40 -50 - 60 -70 - 150 - 175 - 200 - 225 -250 HP



	PID	LB	KG		OD	ID	H	UPC
ZN	CM6764525100Z	0.06	0.03	mm	25	11	7	6 28309 23146 0
AL	CM6764525100A	0.02	0.01					6 28309 23158 3
MG	CM6764525100M	0.02	0.01	in	1	0.4	0.3	6 28309 23172 9

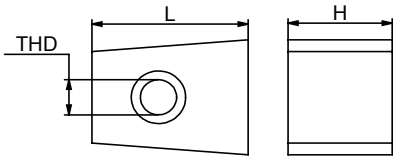
Also apply to Yamaha, ALLPASS, Hidea, Tiger & Painier



PARSUN™ ANODES

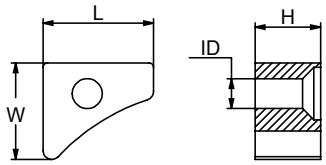
	PID	LB	KG		L	H	THD	UPC
ZN	CM67C4525100Z	0.27	0.12	mm	35	23	8	6 28309 20936 0
AL	CM67C4525100A	0.1	0.04					6 28309 20957 5
MG	CM67C4525100M	0.07	0.03	in	1.4	0.9	0.3	6 28309 20978 0

Also apply to Yamaha, ALLPASS, Hidea, Tiger & Painier



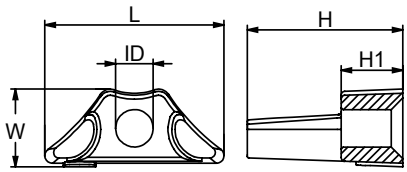
	PID	LB	KG		L	W	H	ID	UPC
ZN	CM6761132500Z	0.07	0.03	mm	25	22	15	7	6 28309 23145 3
AL	CM6761132500A	0.03	0.01						6 28309 23157 6
MG	CM6761132500M	0.02	0.01	in	1	0.9	0.6	0.3	6 28309 23171 2

YAMAHA 40 HP
Also apply to Hidea, Tiger & Painier



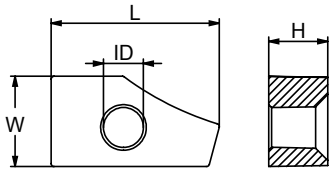
	PID	LB	KG		L	W	H	H1	ID	UPC
ZN	CM6881132500Z	0.02	0.01	mm	23	10	20	8	5	6 28309 23148 4
AL	CM6881132500A	0.01	0.01							6 28309 23160 6
MG	CM6881132500M	0.01	0.01	in	0.9	0.4	0.8	0.3	0.2	6 28309 23174 3

Also apply to YAMAHA 40 - 50 -75 -80 -85 - 90 HP



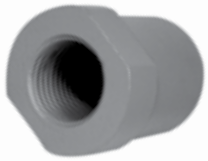
	PID	LB	KG		L	W	H	ID	UPC
ZN	CM6891132500Z	0.46	0.21	mm	28	15	10	6	6 28309 23148 4
AL	CM6891132500A	0.02	0.01						6 28309 23161 3
MG	CM6891132500M	0.01	0.01	in	1.1	0.59	0.39	0.24	6 28309 23175 0

Also apply to Yamaha 25 - 30 HP UP TO 1997, ALLPASS, Hidea & Painier

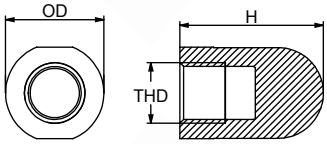


RENAULT™ ANODES

	PID	LB	KG		OD	H	THD	UPC
ZN	CMRE16Z	0.19	0.09	mm	26	38	M16	6 28309 20949 0
AL	CMRE16A	0.07	0.03	in	1	1.5		6 28309 20970 4
MG	CMRE16M	0.04	0.02					6 28309 20991 9
ZN	CMRE20Z	0.35	0.16	mm	35	50	M20	6 28309 20950 6
AL	CMRE20A	0.13	0.06	in	1.4	2		6 28309 20971 1
MG	CMRE20M	0.09	0.04					6 28309 20992 6

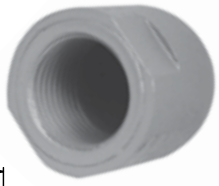


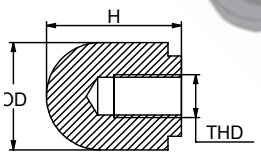
NUT FOR SHAFT



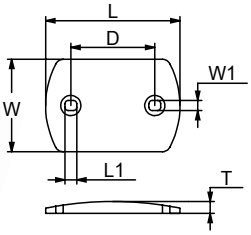
	PID	LB	KG		OD	H	THD	UPC
ZN	CMRE28Z	0.49	0.22	mm	40	49	M28 x2.5	6 28309 20951 3
AL	CMRE28A	0.18	0.08	in	1.6	1.9		6 28309 20972 8
MG	CMRE28M	0.11	0.05					6 28309 20993 3

NUT FOR SHAFT





	PID	LB	KG		L	L1	W	W1	D	T	UPC
ZN	CMRE50Z	0.37	0.17	mm	80	8	50	6	48	10	6 28309 23785 1
				in	3.1	0.32	2	0.25	1.89	0.39	



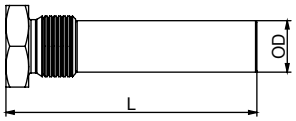
SEASALL™ ENGINE ANODES NEW

	PID	LB	KG		L	L1	OD	0D1	UPC
NEW ZN	CMHS1760Z	0.231	0.105	mm	70	10	17	14	6 28309 25565 7
				in	2.75	0.39	0.67	0.55	

ANODE ONLY

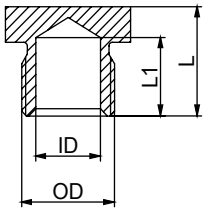
	PID	LB	KG		L	OD	UPC
NEW ZN	CMHS1760PZ	0.349	0.159	mm	83	17	6 28309 25564 0
				in	3.27	0.67	

W/PLUG



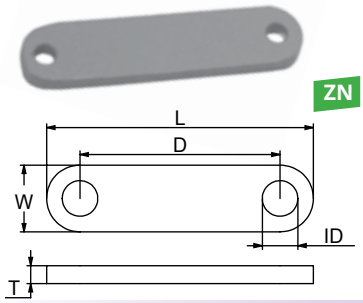
	PID	LB	KG		ID	OD	L	L1	UPC
NEW	CMEPHS1420	0.118	0.054	mm	14	M20 X15	23	16.5	6 28309 25566 4
				in	0.55		0.90	0.65	

W/ BRASS PLUG



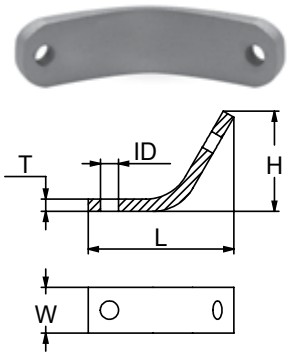
*Remember: **Zinc** - Salt water only, **Aluminum** - Salt and Brackish water, **Magnesium** - Fresh water only.*

SELVA™ ANODES



	PID	LB	KG		L	W	D	ID	T	UPC
ZN	CM9005655Z	0.05	0.02	mm	60	15	51	4	4	6 28309 23200 9
				in	2.4	0.6	2	0.17	0.2	

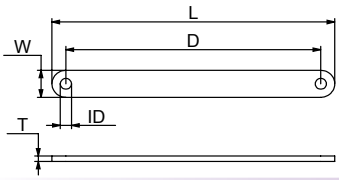
PIATTA FB SERIES



	PID	LB	KG		L	W	H	ID	T	UPC
ZN	CM9005660Z	0.06	0.03	mm	52	15	28	4	4	6 28309 23201 6
				in	2	0.6	1.1	0.17	0.16	

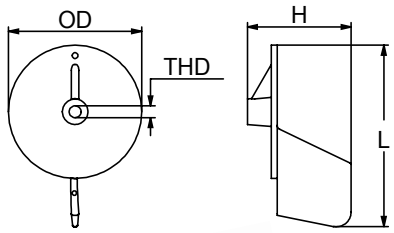
FB SERIES CURVE

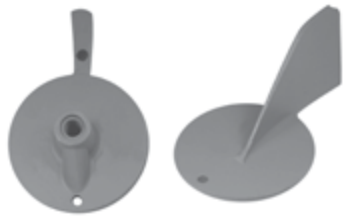
	PID	LB	KG		L	W	D	ID	T	UPC
ZN	CM9005665Z	0.24	0.11	mm	203	20	183	7	4	6 28309 23202 3
				in	8	0.8	7.2	0.26	0.2	

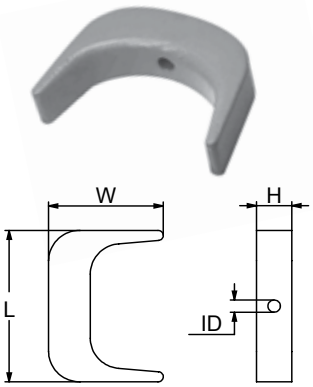


	PID	LB	KG		L	H	OD	THD	UPC
ZN	CM2500050Z	0.37	0.17	mm	90	70	59	M8	6 28309 23190 3
				in	3.5	2.7	2.32		

BEST 800-S1000







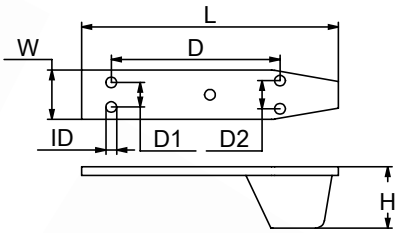
	PID	LB	KG		L	W	H	UPC	
ZN	CM2504020Z	0.46	0.21	mm	75	55	17	6 28309 23193 4	***S405-S700***
				in	2.9	2.2	0.7		
ZN	CM2504025Z	0.31	0.14	mm	88	53	11	6 28309 23194 1	***100 HP***
				in	3.5	2.1	0.4		
ZN	CM2504035Z	0.22	0.1	mm	60	40	12	6 28309 23195 8	***80 HP IZIMIR 8 CV NAXOS 15 CV***
				in	2.4	1.6	0.5		

*Remember: **Zinc** - Salt water only, **Aluminum** - Salt and Brackish water, **Magnesium** - Fresh water only.*

SELVA™ ANODES

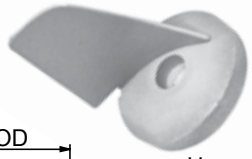
	PID	LB	KG		L	W	H	D	ID	D1	D2	UPC
ZN	CM2500010Z	0.22	0.1	mm	143	28	35	65	4	18	16	6 28309 23189 7
				in	5.6	1.1	1.4	2.56	0.17	0.71	0.63	

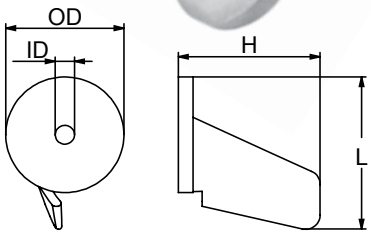
6-15 HP



	PID	LB	KG		L	OD	ID	H	UPC
ZN	CM2500065Z	0.22	0.1	mm	47	40	7	48	6 28309 23191 0
				in	1.85	1.6	0.26	1.9	

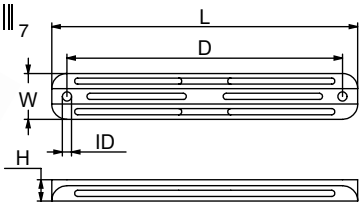
25-40 HP





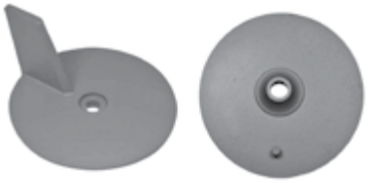
	PID	LB	KG		L	W	H	D	ID	UPC
ZN	CM2504015Z	0.86	0.39	mm	200	30	14	182	6	6 28309 23192 7
				in	7.9	1.2	0.5	7.1	0.25	

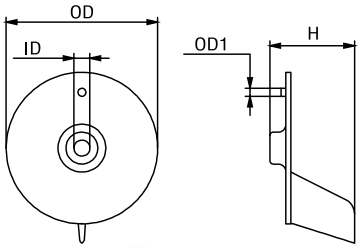
S600 SERIES



	PID	LB	KG		OD	OD1	ID	H	UPC
ZN	CM82795MZ	0.43	0.2	mm	95	5	9	53	6 28309 20938 4
				in	3.7	0.19	0.33	2.1	

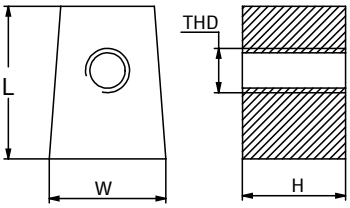
YAMAHA 25-30 HP, MANTA / BARRACUDA





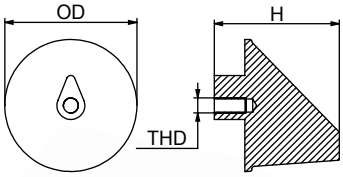
	PID	LB	KG		L	W	H	THD	UPC
ZN	CM67C4525100Z	0.25	0.12	mm	35	27	24	M8 x 1.25	6 28309 20936 0
				in	1.36	1	0.93		

YAMAHA T25 - F30 - F40 - F50 - F60 HP



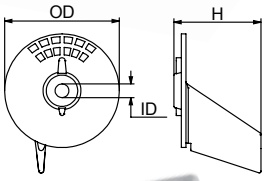
*Remember: **Zinc** - Salt water only, **Aluminum** - Salt and Brackish water, **Magnesium** - Fresh water only.*

SUZUKI™ ANODES



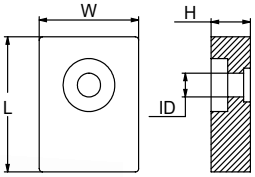
	PID	LB	KG		OD	H	THD	UPC
ZN	CM5512587D00Z	0.75	0.34	mm	89	84	M10 x 1.25	6 28309 10057 5
AL	CM5512587D00A	0.3	0.14					6 28309 24171 1
MG	CM5512587D00M	0.19	0.09	in	3.5	3.3		6 28309 24279 4

SUZUKI 50 - 70 HP DT150 - DT175 - DT200 - DT225 4 T



	PID	LB	KG		OD	ID	H	UPC
ZN	CM551259630Z	0.28	0.13	mm	70	8	53	6 28309 10058 2
AL	CM551259630A	0.15	0.07					6 28309 19258 7
MG	CM551259630M	0.07	0.03	in	2.7	0.3	2.1	6 28309 19295 2

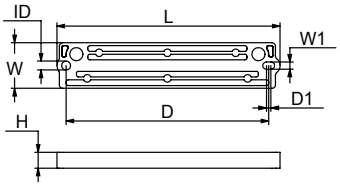
DF60 - DF70

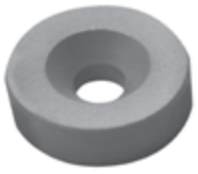


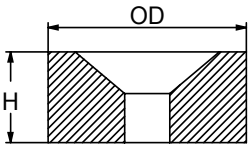
	PID	LB	KG		L	W	H	ID	UPC
ZN	CM5532095310Z	0.17	0.08	mm	40	30	12	7	6 28309 10059 9
AL	CM5532095310A	0.07	0.03						6 28309 19259 4
MG	CM5532095310M	0.04	0.02	in	1.6	1.2	0.5	0.26	6 28309 19296 9

	PID	LB	KG		L	W	W1	H	D	D1	ID	UPC
ZN	CM5532194900Z	1.12	0.51	mm	196	40	6	14	178	4	8	6 28309 24106 3
AL	CM5532194900A	0.46	0.21									6 28309 24173 5
MG	CM5532194900M	0.28	0.13	in	7.7	1.6	0.25	0.5	7	0.16	0.31	6 28309 24282 4

70 - 90 - 115 - 140 - 150 CV. Also fits BRP™ & Mercury™







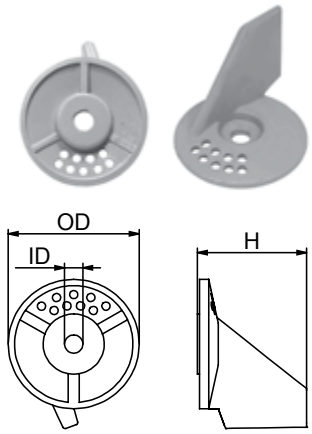
	PID	LB	KG		OD	ID	H	UPC
ZN	CM1113094600Z	0.02	0.01	mm	22	7	9	6 28309 20931 5
AL	CM1113094600A	0.01	0.01					6 28309 20952 0
MG	CM1113094600M	0.01	0.01	in	0.9	0.26	0.4	6 28309 20973 5

YAMAHA 40 HP UP TO 1997
SUZUKI FB

SUZUKI™ ANODES

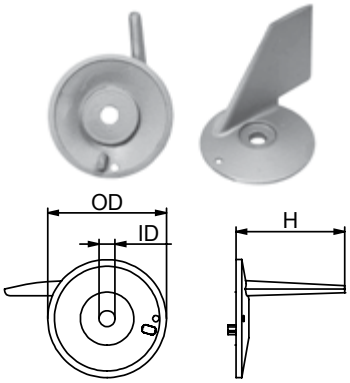
	PID	LB	KG		OD	ID	H	UPC
ZN	CM5512595301Z	0.31	0.14	mm	60	8	50	6 28309 20934 6
AL	CM5512595301A	0.12	0.06					6 28309 20955 1
MG	CM5512595301M	0.08	0.04	in	2.4	0.33	2	6 28309 20976 6

SUZUKI 55-65 HP



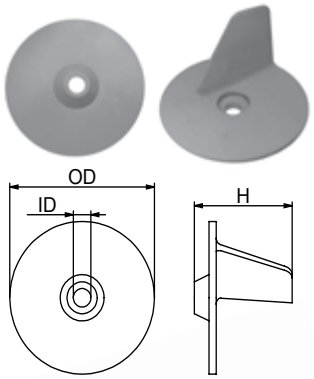
	PID	LB	KG		OD	H	ID	UPC
ZN	CM5512595500Z	0.35	0.16	mm	62	57	9	6 28309 21129 5
				in	2.4	2.24	0.33	

75-85 HP



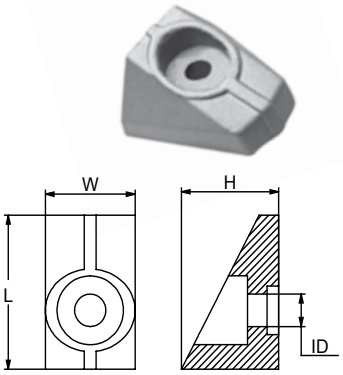
	PID	LB	KG		OD	ID	H	UPC
ZN	CM5512594502Z	0.72	0.33	mm	99	11	67	6 28309 23361 7
				in	3.9	0.44	2.6	

SUZUKI 115 HP



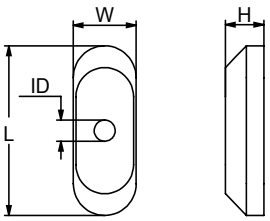
	PID	LB	KG		L	OD	ID	H	UPC
ZN	CM5532098600Z	0.22	0.1	mm	38	23	21	6	6 28309 23367 9
				in	1.5	0.9	0.83	0.25	

OUTBOARD SUZUKI FB

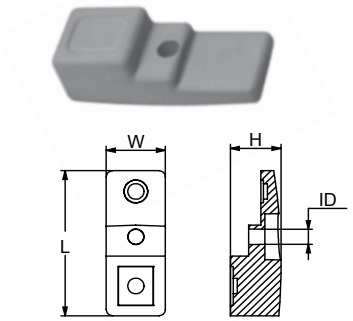


	PID	LB	KG		L	W	H	ID	UPC
ZN	CM5532098400Z	0.11	0.05	mm	48	18	11	6	6 28309 21130 1
				in	1.9	0.7	0.4	0.2	

SUZUKI 2 HP

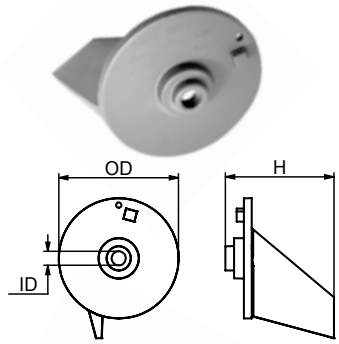


SUZUKI™ ANODES



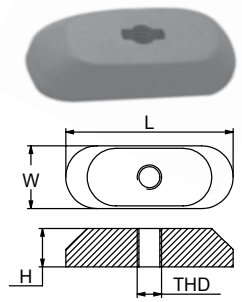
	PID	LB	KG		L	W	H	ID	UPC
ZN	CM5532190J01Z	0.19	0.09	mm	55	22	19	6	6 28309 21131 8
				in	2.2	0.9	0.7	0.2	

DF 90 - 115 -140



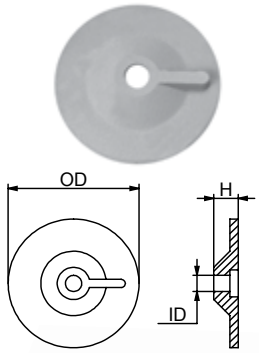
	PID	LB	KG		OD	H	ID	UPC
ZN	CM5512587E01Z	0.54	0.25	mm	73	66	9	6 28309 24105 6
				in	2.9	2.6	0.33	

70-90-115-140 HP



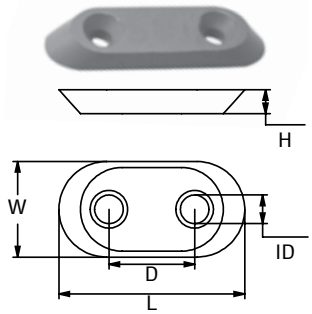
	PID	LB	KG		L	W	H	THD	UPC
ZN	CM4181198500Z	0.11	0.05	mm	48	18	11	M6 x 1	6 28309 23196 5
				in	1.9	0.7	0.4		

2.2-4 HP



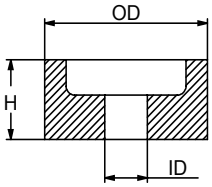
	PID	LB	KG		OD	H	ID	UPC
ZN	CM5532193900Z	0.12	0.05	mm	48	9	7	6 28309 20956 8
AL	CM5532193900A	0.05	0.02					6 28309 20935 3
MG	CM5532193900M	0.03	0.01	in	1.9	0.4	0.26	6 28309 20977 3

9.9-15 HP 4T



	PID	LB	KG		L	W	H	D	ID	UPC
ZN	CM5530095500Z	0.17	0.08	mm	78	20	10	40	7	6 28309 23926 8
				in	3.1	0.79	0.4	1.6	0.26	

2-8 HP



	PID	LB	KG		OD	H	ID	UPC
ZN	CM5532187J00Z	0.04	0.02	mm	21	10	6	6 28309 19252 5
				in	0.83	0.39	0.24	

ENGINES 3,5 - 5 - 6 HP 4T

*Remember: **Zinc** - Salt water only, **Aluminum** - Salt and Brackish water, **Magnesium** - Fresh water only.*

SUZUKI™ ANODE KITS NEW

ALL KITS INCLUDE FASTENING HARDWARE, INSTALLATION INSTRUCTIONS, AND ALL OF THE ANODES REQUIRED FOR 100% PROTECTION.

NEW

	PID	LB	KG	Contains	Fits	UPC
ZN	CMSZ90140KITZ	1.72	0.78	CM5532190J01 X 1 CM1113094600 X 4 CM3C7602181A0 X 1	Suzuki 90-100-115 -140 HP	6 28309 24964 9
AL	CMSZ90140KITA	0.85	0.385			6 28309 24962 5
MG	CMSZ90140KITM	0.59	0.27			6 28309 24963 2

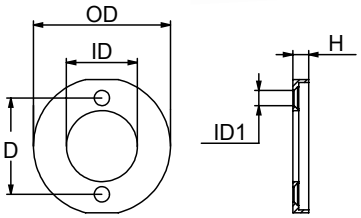
NEW

	PID	LB	KG	Contains	Fits	UPC
ZN	CMSZ4050KITZ	1.19	0.54	CM5532095310 X 2 CM1113094600 X 4 CM5512595500 X 1	Suzuki 40-50 HP	6 28309 24969 4
AL	CMSZ4050KITA	0.86	0.39			6 28309 24967 0
MG	CMSZ4050KITM	0.67	0.30			6 28309 24968 7

VOLVO PENTA™ ANODES

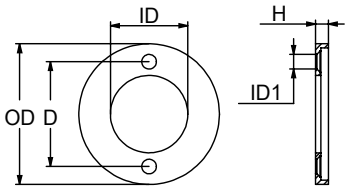
	PID	LB	KG		OD	D	ID	ID1	H	UPC
ZN	CMV15Z(CM875810Z)	0.43	0.2	mm	99	67	51	11	11	6 28309 10360 6
AL	CMV15A (CM875810A)	0.19	0.09							6 28309 12355 0
MG	CMV15M (CM875810M)	0.11	0.05	in	3.9	2.74	2	0.43	0.4	6 28309 19320 1

50-100 SERIES



	PID	LB	KG		OD	D	ID	ID1	H	UPC
ZN	CMV16Z(CM875809Z)	0.44	0.2	mm	106	79	58	11	10	6 28309 10361 3
AL	CMV16A (CM875809A)	0.19	0.09							6 28309 12356 7
MG	CMV16M (CM875809M)	0.11	0.05	in	4.2	3.1	2.3	0.43	0.4	6 28309 19321 8

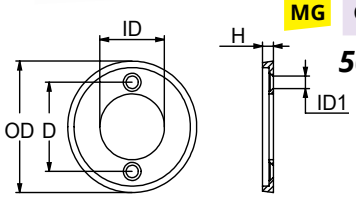
50-200 SERIES



*Remember: **Zinc** - Salt water only, **Aluminum** - Salt and Brackish water, **Magnesium** - Fresh water only.*

VOLVO PENTA™ ANODES

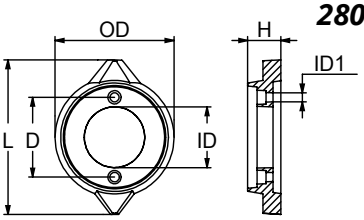
	PID	LB	KG		OD	D	ID	ID1	H	UPC
ZN	CMV17Z(CM875806-4Z)	0.65	0.29	mm	117	79	58	11	10	6 28309 10362 0
AL	CMV17A (CM875806-4A)	0.29	0.13	in	4.6	3.1	2.3	0.43	0.4	6 28309 12357 4
MG	CMV17M (CM875806-4M)	0.16	0.07							6 28309 19322 5



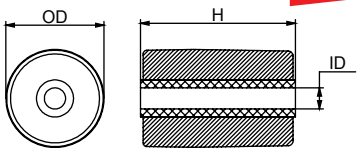
50-250-270-275-280-285 SERIES

	PID	LB	KG		L	H	D	OD	ID	ID1	UPC
ZN	CMV18Z (CM875815-3Z)	1.16	0.73	mm	155	34	80	120	61	9	6 28309 10363 7
AL	CMV18A (CM875815-3A)	0.64	0.29								6 28309 12266 9
MG	CMV18M (CM875815-3M)	0.4	0.18	in	6.1	1.34	3.15	4.7	2.4	0.35	6 28309 10364 4

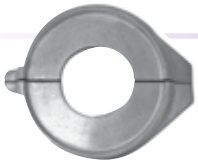
280-290 E SINGLE DROP SERIES



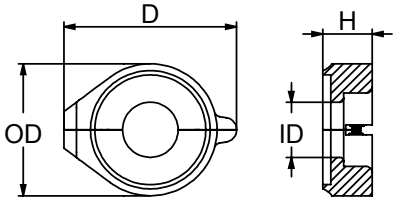
NEW



	PID	LB	KG		OD	H	ID	UPC
ZN	CM21718129Z	1.018	0.462	mm	38.9	61.5	8.3	6 28309 25161 1
AL	CM21718129A	0.465	0.211					6 28309 25162 8
MG	CM21718129M	0.339	0.154	in	1.53	2.42	0.33	6 28309 25163 5

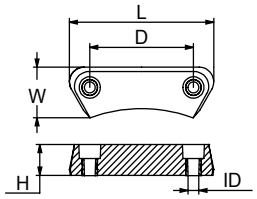


	PID	LB	KG		D	OD	ID	H	UPC
ZN	CM358407Z	3.27	1.48	mm	139	108	45	40	6 28309 12325 3
AL	CM358407A	1.43	0.65						6 28309 12394 9
MG	CM358407M	0.89	0.41	in	5.47	4.25	1.77	1.57	6 28309 12404 5



SD 130/150 2002 2003 SERIES

	PID	LB	KG		L	W	H	D	ID	UPC
ZN	CM3588745Z	1.08	0.49	mm	118	41	25	85	9	6 28309 17068 4
AL	CM3588745A	0.45	0.20							6 28309 17066 0
MG	CM3588745M	0.29	0.13	in	4.6	1.6	1	3.4	0.35	6 28309 17067 7



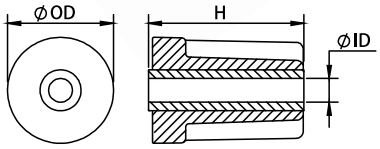
DUO PROP

*Remember: **Zinc** - Salt water only, **Aluminum** - Salt and Brackish water, **Magnesium** - Fresh water only.*

VOLVO PENTA™ ANODES

	PID	LB	KG		OD	ID	H	UPC
ZN	CM3593881Z	1.61	0.73	mm	72	49.1	10.5	6 28309 17070 7
AL	CM3593881A	0.75	0.34					6 28309 17069 1
MG	CM3593881M	0.57	0.26	in	2.83	1.93	0.41	6 28309 19286 0

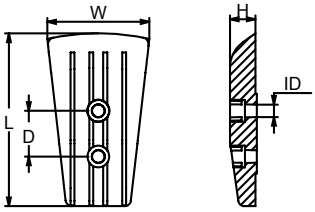
IPS



NEW

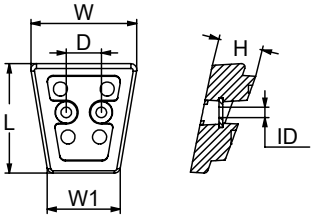
	PID	LB	KG		L	H	W	D	ID	UPC
ZN	CM3589875Z	1.82	0.83	mm	132.3	19.6	78	35	16.6	6 28309 21148 6
AL	CM3589875A	0.72	0.33							6 28309 21147 9
MG	CM3589875M	0.50	0.23	in	5.20	0.77	3.07	1.38	0.65	6 28309 21169 1

VOLVO PENTA DPR PLATE

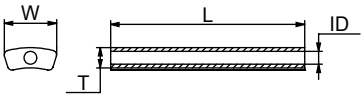


	PID	LB	KG		L	W	W1	H	D	ID	UPC
ZN	CM3841427Z	0.96	0.43	mm	94	93	61	38	30	9	6 28309 12734 3
AL	CM3841427A	0.44	0.2								6 28309 12636 0
MG	CM3841427M	0.29	0.13	in	3.7	3.7	2.4	1.5	1.18	0.35	6 28309 15986 3

SX-A/APS-A

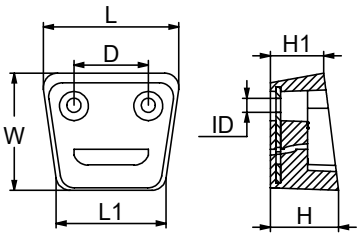


	PID	LB	KG		L	W	ID	T	UPC
ZN	CM3852970Z	0.33	0.15	mm	104	28	7	11	6 28309 19250 1
AL	CM3852970A	0.15	0.68						6 28309 12577 6
MG	CM3852970M	0.1	0.05	in	4	1.1	0.26	0.42	6 28309 19287 7



	PID	LB	KG		L	L1	W	H	H1	D	ID	UPC
ZN	CM3854130Z	2.4	1.09	mm	96	73	80	47	37	51	10	6 28309 11378 0
AL	CM3854130A	0.9	0.41									6 28309 12270 6
MG	CM3854130M	0.6	0.27	in	3.76	2.86	3.14	1.84	1.44	2	0.38	6 28309 12608 7

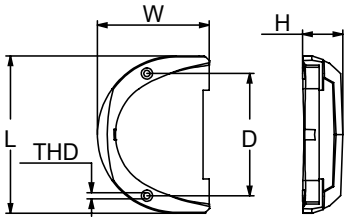
S. DRIVE - SX DRIVE



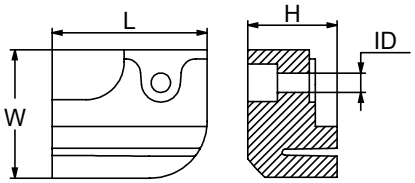
*Remember: **Zinc** - Salt water only, **Aluminum** - Salt and Brackish water, **Magnesium** - Fresh water only.*

VOLVO PENTA™ ANODES

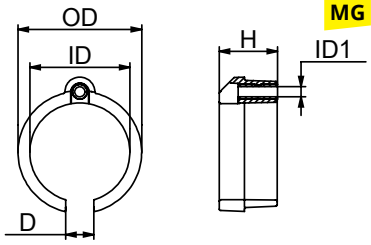
	PID	LB	KG		L	W	H	D	THD	UPC
ZN	CM3855411Z	2.29	1.04	mm	145	103	37	113	¼ - 20 UNC	6 28309 11372 8
AL	CM3855411A	0.9	0.41							6 28309 12269 0
MG	CM3855411M	0.55	0.25	in	5.7	4	1.4	4.4		6 28309 12634 6



	PID	LB	KG		L	W	H	ID	UPC
ZN	CM3861636Z	0.52	0.24	mm	52	43	30	6	6 28309 17076 9
AL	CM3861636A	0.22	0.1						6 28309 17074 5
MG	CM3861636M	0.14	0.06	in	2	1.7	1.2	0.25	6 28309 17075 2

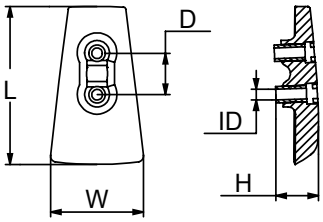


	PID	LB	KG		OD	ID	ID1	D	H	UPC
ZN	CM3861634Z	0.65	0.29	mm	78	64	6	18	37	6 28309 17073 8
AL	CM3861634A	0.27	0.12							6 28309 17071 4
MG	CM3861634M	0.18	0.08	in	3.1	2.52	0.25	0.71	1.5	6 28309 17072 1



	PID	LB	KG		L	W	H	D	ID	UPC
ZN	CM3863206Z	1.57	0.71	mm	132	78	36	35	9	6 28309 12692 6
AL	CM3863206A	0.77	0.35							6 28309 12722 0
MG	CM3863206M	0.61	0.28	in	5.2	3.1	1.4	1.4	0.35	6 28309 17606 8

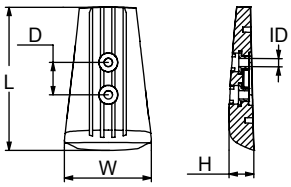
DPH/DPR SERIES



*Remember: **Zinc** - Salt water only, **Aluminum** - Salt and Brackish water, **Magnesium** - Fresh water only.*

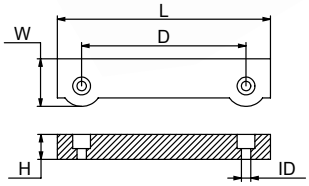
VOLVO PENTA™ ANODES

	PID	LB	KG		L	W	H	D	ID	UPC
ZN	CM3883728Z	2.89	1.31	mm	153	91	27	35	9	6 28309 12693 3
AL	CM3883728A	1.1	0.5							6 28309 12720 6
MG	CM3883728M	0.71	0.32	in	6	3.6	1.1	1.4	0.4	6 28309 15987 0



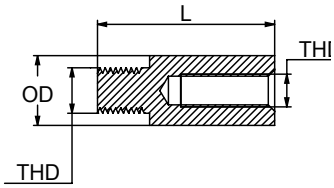
	PID	LB	KG		L	W	H	D	ID	UPC
ZN	CM832598Z	2.09	0.95	mm	188	41	22	145	8	6 28309 10126 8
AL	CM832598A	0.81	0.37							6 28309 12265 2
MG	CM832598M	0.52	0.24	in	7.4	1.6	0.9	5.7	0.3	6 28309 10125 1

250-270-275-280-285 SERIES



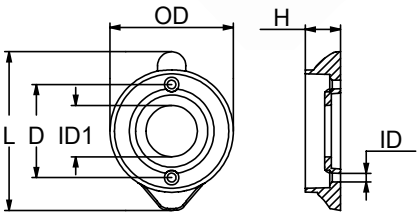
	PID	LB	KG		L	OD	THD	THD1	UPC
ZN	CM838929Z	0.11	0.05	mm	43	18	7/16 - 14 UNC	M8	6 28309 10128 2
AL	CM838929A	0.04	0.17						6 28309 12328 4
MG	CM838929M	0.02	0.01	in	1.7	0.7			6 28309 19298 3

200-250-270 SERIES



	PID	LB	KG		L	D	OD	ID	ID1	H	UPC
ZN	CM851983Z	1.08	0.49	mm	124	73	96	7	40	27	6 28309 10134 3
AL	CM851983A	0.53	0.24								6 28309 12326 0
MG	CM851983M	0.42	0.19	in	4.9	2.85	3.8	0.26	1.57	1.1	6 28309 12190 7

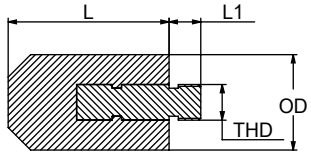
S. DRIVE 120 SERIES



*Remember: **Zinc** - Salt water only, **Aluminum** - Salt and Brackish water, **Magnesium** - Fresh water only.*

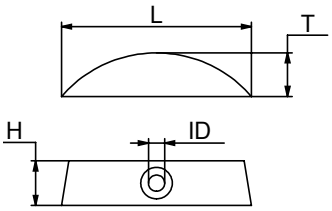
VOLVO PENTA™ ANODES

	PID	LB	KG		L	L1	OD	THD	UPC
ZN	CM823661Z	0.31	0.14	mm	43	10	26	⅜ - 16 UNC	6 28309 10118 3
AL	CM823661A	0.15	0.07						6 28309 12327 7
MG	CM823661M	0.11	0.05	in	1.7	0.4	1		6 28309 12374 1



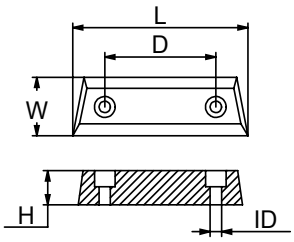
	PID	LB	KG		L	W	T	ID	UPC
ZN	CM852018Z(CM850982Z)	0.12	0.05	mm	64	15	15	5	6 28309 11522 7
AL	CM852018A (CM850982A)	0.05	0.02						6 28309 12330 7
MG	CM852018M (CM850982M)	0.03	0.01	in	2.5	0.59	0.57	0.21	6 28309 19299 0

110-120, S-B, S-C SERIES

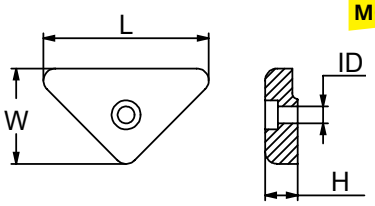


	PID	LB	KG		L	W	H	D	ID	UPC
ZN	CM852835Z	1.67	0.76	mm	136	46	26	86	9	6 28309 10136 7
AL	CM852835A	0.66	0.3							6 28309 12268 3
MG	CM852835M	0.42	0.19	in	5.35	1.81	1	3.4	0.33	6 28309 10135 0

DUO PROP 290 SERIES



	PID	LB	KG		L	W	H	ID	UPC
ZN	CM872793Z	0.24	0.11	mm	66	38	13	6	6 28309 11367 4
AL	CM872793A	0.11	0.05						6 28309 12332 1
MG	CM872793M	0.07	0.03	in	2.6	1.5	0.5	0.25	6 28309 17046 2



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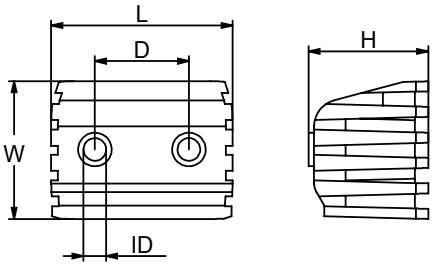
VOLVO PENTA™ ANODES

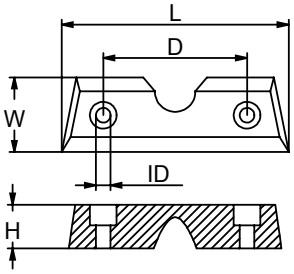
	PID	LB	KG		L	W	H	D	ID	UPC
ZN	CM873395Z	0.61	0.28	mm	54	41	36	28	7	6 28309 12736 7
AL	CM873395A	0.28	0.13							6 28309 12637 7
MG	CM873395M	0.16	0.07	in	2.1	1.6	1.4	1.1	0.26	6 28309 15988 7

DPX SERIES



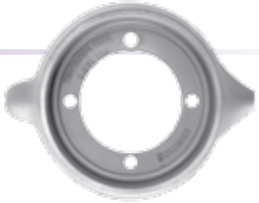
	PID	LB	KG		L	W	H	D	ID	UPC
ZN	CM872139Z	1.43	0.65	mm	136	46	26	86	9	6 28309 11366 7
AL	CM872139A	0.63	0.29							6 28309 12331 4
MG	CM872139M	0.4	0.18	in	5.35	1.8	1	3.4	0.33	6 28309 19301 0

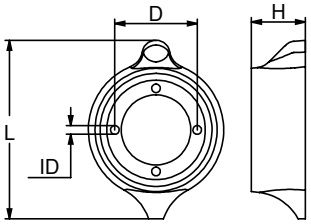
DPX SERIES



	PID	LB	KG		L	H	D	ID	UPC
ZN	CM875812Z	2.03	0.92	mm	140	43	65	6	6 28309 10140 4
AL	CM875812A	0.89	0.41						6 28309 12333 8
MG	CM875812M	0.55	0.25	in	5.5	1.7	2.55	0.25	6 28309 10141 1

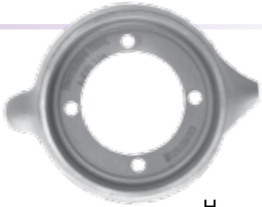
S. DRIVE 110 SERIES

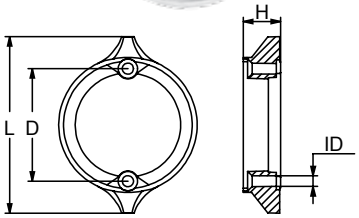




	PID	LB	KG		L	H	D	ID	UPC
ZN	CM875821Z	1.28	0.58	mm	145	29	92	9	6 28309 10142 8
AL	CM875821A	0.51	0.23						6 28309 12267 6
MG	CM875821M	0.33	0.15	in	5.7	1.2	3.63	0.34	6 28309 10141 1

DUO PROP 290 SERIES





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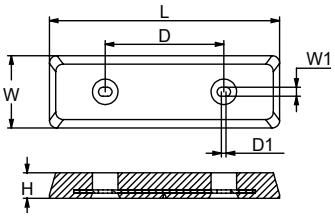
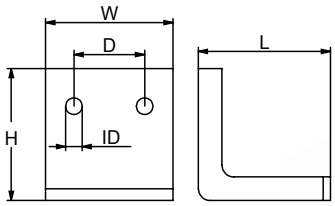
VOLVO PENTA™ ANODES



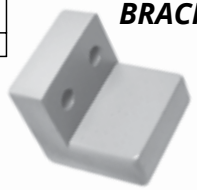
	PID	LB	KG		L	W	W1	H	D	D1	UPC
ZN	CM40005875Z	7.95	3.61	mm	268	85	30	138	5	10	6 28309 17079 0
AL	CM40005875A	3.33	1.51								6 28309 17077 6
MG	CM40005875M	2.17	0.99	in	10.5	3.3	1.2	5.4	0.21	0.41	6 28309 17078 3

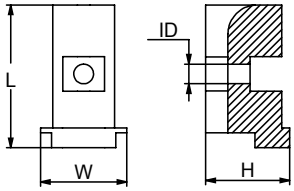
IPS



	PID	LB	KG		L	W	H	D	ID	UPC
ZN	CM832934Z	1.46	0.66	mm	56	56	54	26	9	6 28309 23502 4
				in	2.2	2.2	2.1	1	0.35	

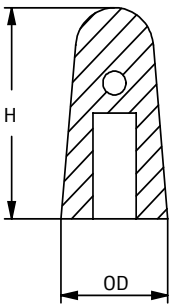
BRACKET TRIM 270





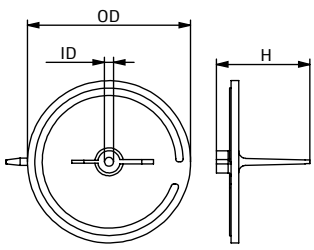
	PID	LB	KG		L	W	H	ID	UPC
ZN	CM855105Z	0.35	0.16	mm	60	35	30	7	6 28309 20943 8
AL	CM855105A	0.04	0.02						6 28309 20964 3
MG	CM855105M	0.02	0.01	in	2.4	1.4	1.2	0.28	6 28309 20985 8

S. DRIVE SERIES



	PID	LB	KG		OD	H	THD	Shaft	UPC
ZN	CM833913Z	0.66	0.3	mm	37	70	¾ - 10 UNC	22-25	6 28309 20940 7
AL	CM833913A	0.24	0.11						6 28309 20961 2
MG	CM833913M	0.15	0.07	in	1.46	2.76			6 28309 20982 7
ZN	CM833915Z	0.62	0.28	mm	37	70	⅞ - 9 UNC	30	6 28309 20941 4
AL	CM833915A	0.24	0.11						6 28309 20962 9
MG	CM833915M	0.15	0.07	in	1.46	2.76			6 28309 20983 4
ZN	CM828140Z	0.11	0.05	mm	46	80	1 - 8 UNC	40-45	6 28309 20939 1
AL	CM828140A	0.42	0.19						6 28309 20960 5
MG	CM828140M	0.26	0.12	in	1.81	3.15			6 28309 20981 0

DPX SERIES



	PID	LB	KG		OD	ID	H	UPC
ZN	CMVP339Z	0.93	0.42	mm	110	13	63	6 28309 23818 6
				in	4.3	0.5	2.5	

FB SERIES

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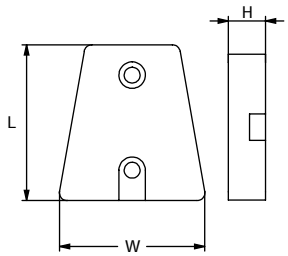
VOLVO PENTA™ ANODES

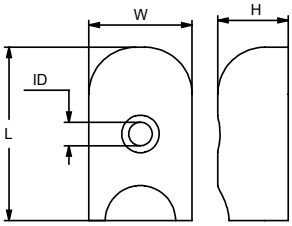
	PID	LB	KG		L	W	H	UPC
ZN	CM876638Z	0.47	0.22	mm	59	55	14	6 28309 24114 8
				in	2.3	2.2	0.5	

DPX SERIES



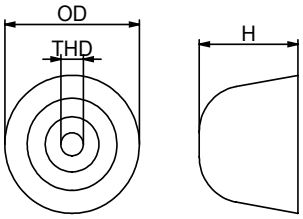
	PID	LB	KG		L	W	H	ID	UPC
ZN	SGSP71180Z	0.1	0.05	mm	37	22	15	7	6 28309 22311 3
				in	1.5	0.9	0.6	0.3	

BOW THRUST

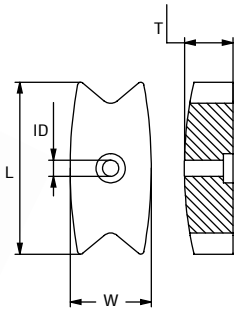


	PID	LB	KG		OD	H	THD	UPC
ZN	CM41100098Z	0.12	0.06	mm	30	22	M4	6 28309 20932 2
AL	CM41100098A	0.04	0.02					6 28309 20953 7
MG	CM41100098M	0.03	0.01	in	1.2	0.9		6 28309 20974 2

OGIVE BOW THRUST

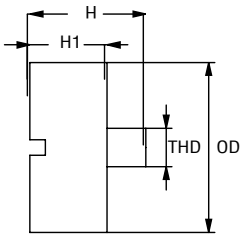


	PID	LB	KG		L	W	ID	T	UPC
ZN	CM41100276Z	0.19	0.08	mm	51	25	7	16	6 28309 23343 3
				in	2	1	0.26	0.62	



	PID	LB	KG		OD	H	H1	THD	UPC
ZN	CM8520219Z	0.08	0.04	mm	22	22	14	M6	6 28309 20942 1
AL	CM8520219A	0.04	0.02						6 28309 20963 6
MG	CM8520219M	0.03	0.01	in	0.9	0.9	0.5		6 28309 20984 1

SEAL DRIVE 100



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VOLVO PENTA™ ANODE KITS

ALL KITS INCLUDE FASTENING HARDWARE, INSTALLATION INSTRUCTIONS, AND ALL OF THE ANODES REQUIRED FOR 100% PROTECTION.

	PID	LB	KG	Contains	Fits	UPC
ZN	CM280KITZ	3.69	1.68	CMV18 X 1 CM832598 X 1	Volvo 280 Engine	6 28309 12802 9
AL	CM280KITA	1.7	0.77			6 28309 12286 7
MG	CM280KITM	1.27	0.57			6 28309 12797 8

	PID	LB	KG	Contains	Fits	UPC
ZN	CM280DPKITZ	3.26	1.48	CM875821 X 1 CM832598 X 1	Volvo 280 Dual Prop Engine	6 28309 12803 6
AL	CM280DPKITA	1.5	0.68			6 28309 12287 4
MG	CM280DPKITM	1.12	0.51			6 28309 12798 5

	PID	LB	KG	Contains	Fits	UPC
ZN	CM290KITZ	3.59	1.63	CMV18 X 1 CM852835 X 1	Volvo 290 Engine	6 28309 12804 3
AL	CM290KITA	1.54	0.7			6 28309 12288 1
MG	CM290KITM	1.23	0.56			6 28309 12799 2

	PID	LB	KG	Contains	Fits	UPC
ZN	CM290DPKITZ	3.35	1.52	CM875821 X 1 CM852835 X 1	Volvo 290 Dual Prop Engine	6 28309 12805 0
AL	CM290DPKITA	1.44	0.65			6 28309 12289 8
MG	CM290DPKITM	1.15	0.52			6 28309 12800 5

	PID	LB	KG	Contains	Fits	UPC
ZN	CMDPHKITZ	2.65	1.2	CM3588745 X 1 CM3863206 X 1	Volvo DPH Engine	6 28309 17049 3
AL	CMDPHKITA	1.22	0.55			6 28309 17047 9
MG	CMDPHKITM	0.91	0.41			6 28309 17048 6

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VOLVO PENTA™ ANODE KITS

ALL KITS INCLUDE FASTENING HARDWARE, INSTALLATION INSTRUCTIONS, AND ALL OF THE ANODES REQUIRED FOR 100% PROTECTION.

	PID	LB	KG	Contains	Fits	UPC
ZN	CMSXKITZ	4.93	2.24	CM3855411 X 1 CM3854130 X 1	Volvo SX Engine	6 28309 12806 7
AL	CMSXKITA	2.27	1.03			6 28309 12290 4
MG	CMSXKITM	1.69	0.77			6 28309 12801 2

	PID	LB	KG	Contains	Fits	UPC
ZN	CMSXAKITZ	3.35	1.52	CM3841427 X 1 CM3883728 X 1	Volvo SX-A/DPS Engine	6 28309 17052 3
AL	CMSXAKITA	1.54	0.65			6 28309 17050 9
MG	CMSXAKITM	1.18	0.54			6 28309 17051 6

	PID	LB	KG	Contains	Fits	UPC
ZN	CM3858399KITZ	0.4	0.18	CM3858286 X 3	Volvo Folding Prop 3-blade Engine D2-55A, B, C, D, E, F	6 28309 15933 7
AL	CM3858399KITA	0.16	0.07			6 28309 15934 4
MG	CM3858399KITM	0.1	0.04			6 28309 15935 1

VOLVO™ ANODE KITS

ALL KITS INCLUDE FASTENING HARDWARE, INSTALLATION INSTRUCTIONS, AND ALL OF THE ANODES REQUIRED FOR 100% PROTECTION.

	PID	LB	KG	Contains	Fits	UPC
ZN	CM290EUKITZ	3.74	1.70	CMV18 X 1 CM852835 X 1 CM872793 X 2	Fits Volvo Penta 290	6 28309 25510 7
AL	CM290EUKITA	1.85	0.84			6 28309 25508 4
MG	CM290EUKITM	1.32	0.60			6 28309 25509 1

	PID	LB	KG	Contains	Fits	UPC
ZN	CM290DPEUKITZ	2.2	0.54	CM875821 X 1 CM852835 X 1 CM872793 X 1	Fits Volvo Penta 290DP	6 28309 25507 7
AL	CM290DPEUKITA	1.67	0.76			6 28309 25505 3
MG	CM290DPEUKITM	1.23	0.56			6 28309 25506 0

*Remember: **Zinc** - Salt water only, **Aluminum** - Salt and Brackish water, **Magnesium** - Fresh water only.*

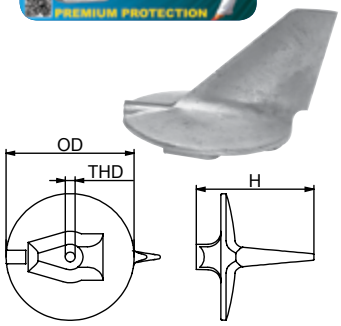
VOLVO™ ANODE KITS

ALL KITS INCLUDE FASTENING HARDWARE, INSTALLATION INSTRUCTIONS, AND ALL OF THE ANODES REQUIRED FOR 100% PROTECTION.

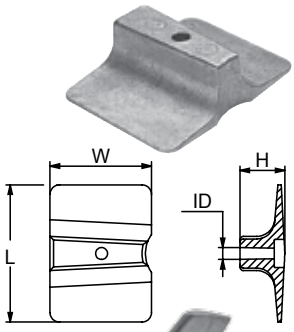
	PID	LB	KG	Contains	Fits	UPC
ZN	CM3584442KITZ	0.70	0.32	CM3584442D X 3	Volvo 4-Blade	6 28309 25513 8
AL	CM3584442KITA	0.46	0.21			6 28309 25511 4
MG	CM3584442KITM	0.40	0.18		Folding Prop	6 28309 25512 1

	PID	LB	KG	Contains	Fits	UPC
ZN	CMVPIPSKITZ	9.86	4.48	CM3593881 X 1 CM40005875 X 1	VolvoPenta	6 28309 25988 4
AL	CMVPIPSKITA	4.18	1.90			6 28309 26012 5
MG	CMVPIPSKITM	2.77	1.26		IPS SternDrive	6 28309 26034 7

YAMAHA™ ANODES

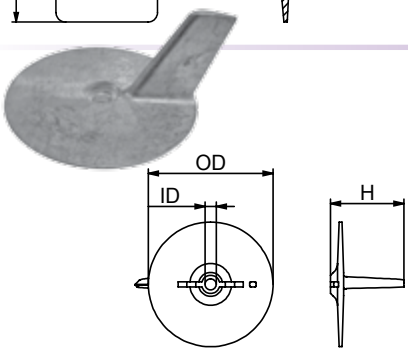


	PID	LB	KG		OD	H	THD	UPC
ZN	CM61A4537100Z	1.38	0.63	mm	99	91	M10x1.25	6 28309 11521 0
AL	CM61A4537100A	0.55	0.25					6 28309 12641 4
MG	CM61A4537100M	0.34	0.16	in	3.6	3.9		6 28309 12642 1



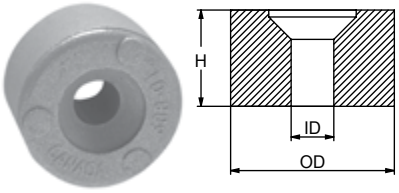
	PID	LB	KG		L	H	D	ID	UPC
ZN	CM61N4525101Z	0.58	0.26	mm	80	59	26	6	6 28309 11518 0
AL	CM61N4525101A	0.23	0.1						6 28309 12666 7
MG	CM61N4525101M	0.16	0.07	in	3.1	2.3	1	0.24	6 28309 12667 4

YAMAHA 8 - 9,9 - 13 - 25 - 60 HP
Also apply to Parsun, ALLPASS, Hidea, Tiger, Painier & ShenFeng



	PID	LB	KG		OD	H	ID	UPC
ZN	CM6644537101Z	0.62	0.28	mm	96	57	9	6 28309 10065 0
AL	CM6644537101A	0.25	0.11					6 28309 12643 8
MG	CM6644537101M	0.15	0.07	in	3.8	2.2	0.33	6 28309 10064 3

Also apply to Parsun, ALLPASS, Hidea, Tiger, Painier & ShenFeng



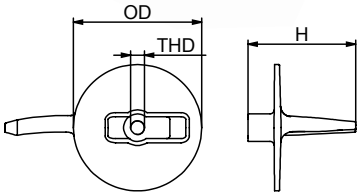
	PID	LB	KG		OD	ID	H	UPC
ZN	CM6884525101Z	0.06	0.03	mm	24	6	14	6 28309 10066 7
AL	CM6884525101A	0.03	0.01					6 28309 12644 5
MG	CM6884525101M	0.02	0.01	in	0.9	0.25	0.55	6 28309 12645 2

2 - 115 HP / MARINER 40 HP / YAMAHA 70 - 85 HP

*Remember: **Zinc** - Salt water only, **Aluminum** - Salt and Brackish water, **Magnesium** - Fresh water only.*

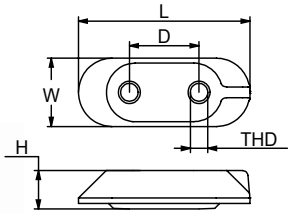
YAMAHA™ ANODES

	PID	LB	KG		OD	H	THD	UPC
ZN	CM6884537102Z	1.05	0.48	mm	92	77	M10x1.25	6 28309 10068 1
AL	CM6884537102A	0.42	0.19					6 28309 12646 9
MG	CM6884537102M	0.25	0.11	in	3.6	3		6 28309 10067 4



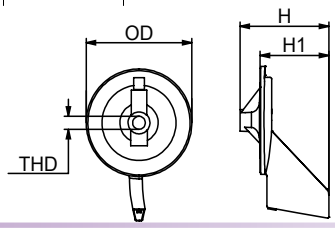
YAMAHA 50 - 60 -70 -75 -80 - 85 - 90 HP
Also apply to Parsun & Painier

	PID	LB	KG		L	W	H	D	THD	UPC
ZN	CM6E04525111Z	0.22	0.1	mm	64	25	14	26	M6	6 28309 10069 8
AL	CM6E04525111A	0.09	0.04							6 28309 12647 6
MG	CM6E04525111M	0.08	0.04	in	2.5	1	0.5	1		6 28309 12648 3



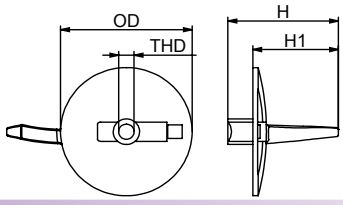
YAMAHA 40 HP / YAMAHA 4 - 6 -8 - 9,9 -15 HP UP TO 1989
Also apply to ALLPASS & Painier

	PID	LB	KG		OD	H	H1	THD	UPC
ZN	CM6J94537101Z	1.1	0.5	mm	100	84	65	M10x1.25	6 28309 12351 2
AL	CM6J94537101A	0.44	0.2						6 28309 12659 9
MG	CM6J94537101M	0.28	0.13	in	3.9	3.3	2.6		6 28309 12369 7



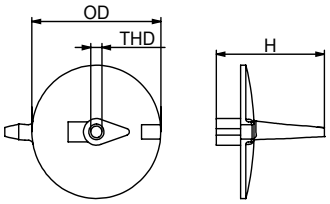
	PID	LB	KG		OD	H	H1	THD	UPC
ZN	CM6K14537102Z	1.1	0.5	mm	100	84	65	M10x1.25	6 28309 12352 9
AL	CM6K14537102A	0.44	0.2						6 28309 12660 5
MG	CM6K14537102M	0.28	0.13	in	3.9	3.3	2.6		6 28309 12661 2

Counter Rotation to CM6J94537101



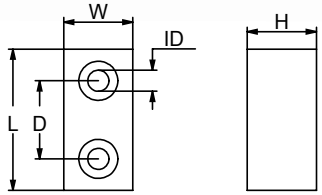
	PID	LB	KG		OD	H	THD	UPC
ZN	CM69L4537100Z	1.15	0.52	mm	99	91	M10x1.25	6 28309 12317 8
AL	CM69L4537100A	0.46	0.21					6 28309 12318 5
MG	CM69L4537100M	0.32	0.14	in	3.9	3.6		6 28309 12669 8

YAMAHA 200 - 225 - 250 - 300 HP

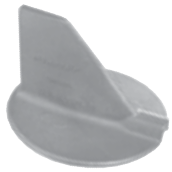


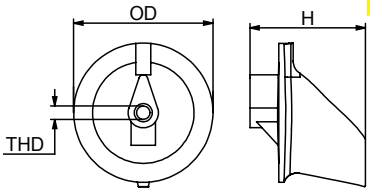
*Remember: **Zinc** - Salt water only, **Aluminum** - Salt and Brackish water, **Magnesium** - Fresh water only.*

YAMAHA™ ANODES



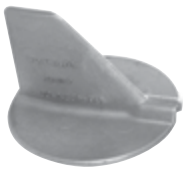
	PID	LB	KG		L	W	H	D	ID	UPC
ZN	CM6E54525100Z	0.3	0.14	mm	47	23	23	23	7	6 28309 10071 1
AL	CM6E54525100A	0.12	0.05							6 28309 12649 0
MG	CM6E54525100M	0.08	0.04	in	1.8	0.9	0.9	0.9	0.26	6 28309 12650 6

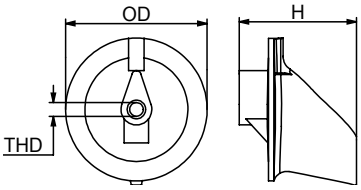




	PID	LB	KG		OD	H	THD	UPC
ZN	CM6E54537101Z	0.92	0.42	mm	92	76	M10x1.25	6 28309 10072 8
AL	CM6E54537101A	0.37	0.17					6 28309 12651 3
MG	CM6E54537101M	0.23	0.11	in	3.6	3		6 28309 12652 0

YAMAHA 150 - 200 HP

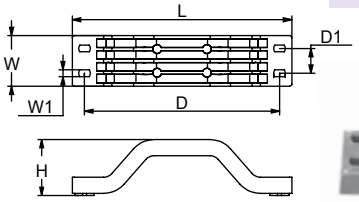


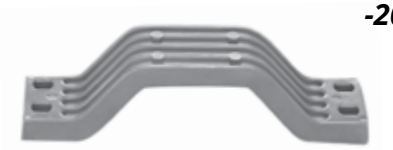


	PID	LB	KG		OD	H	THD	UPC
ZN	CM6K14537100Z	0.92	0.42	mm	92	76	M10x1.25	6 28309 10079 7
AL	CM6K14537100A	0.37	0.17					6 28309 12653 7
MG	CM6K14537100M	0.23	0.11	in	3.6	3		6 28309 12654 4

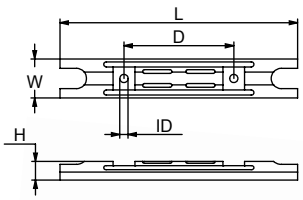
Counter Rotation to CM6E54537101

	PID	LB	KG		L	W	W1	H	D	D1	UPC
ZN	CM6G54525101Z	2	0.91	mm	203	47	6	52	180	23	6 28309 10075 9
AL	CM6G54525101A	0.8	0.37								6 28309 12655 1
MG	CM6G54525101M	0.5	0.23	in	8	1.8	0.24	2	7.1	0.91	6 28309 12656 8





V6 UP TO 1989 / YAMAHA 115 - 130 - 150 - 175 -200 - 225 -250 HP

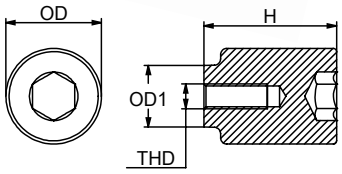


	PID	LB	KG		L	W	H	D	ID	UPC
ZN	CM6H14525102Z	1.08	0.49	mm	203	36	17	101	7	6 28309 10076 6
AL	CM6H14525102A	0.43	0.2							6 28309 12657 5
MG	CM6H14525102M	0.27	0.12	in	8	1.4	0.7	4	0.28	6 28309 12658 2

YAMAHA 60 - 70 - 75 - 80 - 90 -100 HP
Also apply to Parsun & ALLPASS

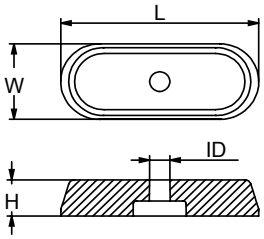
YAMAHA™ ANODES

	PID	LB	KG		OD	OD1	H	THD	UPC
ZN	CM68V1132501Z	0.15	0.07	mm	23	15	33	M6	6 28309 18126 0
AL	CM68V1132501A	0.06	0.03						6 28309 12256 0
MG	CM68V1132501M	0.04	0.02	in	0.9	0.6	1.3		6 28309 21031 1



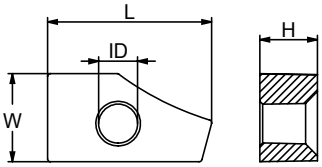
	PID	LB	KG		L	W	H	ID	UPC
ZN	CM68T4525100Z	0.22	0.1	mm	64	25	12	7	6 28309 18439 1
AL	CM68T4525100A	0.09	0.04						6 28309 17662 4
MG	CM68T4525100M	0.06	0.03	in	2.5	1	0.5	0.3	6 28309 19297 6

YAMAHA F6 - F8 - F9,9
Also apply to Hidea & Tiger



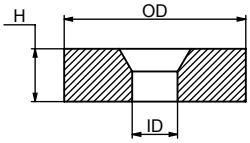
	PID	LB	KG		L	W	H	ID	UPC
ZN	CM6891132500Z	0.05	0.02	mm	28	15	10	6	6 28309 23149 1
AL	CM6891132500A	0.02	0.01						6 28309 23161 3
MG	CM6891132500M	0.01	0.01	in	1.1	0.59	0.39	0.24	6 28309 23175 0

Also apply to Parsun

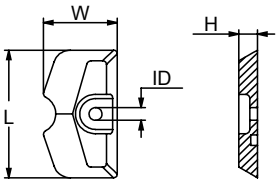


	PID	LB	KG		OD	H	ID	UPC
ZN	CM41106ZW000Z	0.04	0.02	mm	24	7	7	6 28309 23349 5
AL	CM41106ZW000A	0.02	0.01					6 28309 23347 1
MG	CM41106ZW000M	0.01	0.005	in	0.9	0.3	0.26	6 28309 23348 8

2 - 115 HP / MARINER 2 - 25 HP / YAMAHA 2 - 25 HP

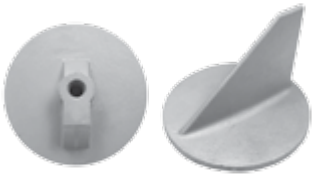


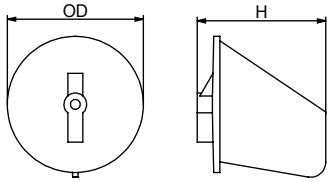
YAMAHA™ ANODES



	PID	LB	KG		L	W	H	ID	UPC
ZN	CM6L54525102Z	0.13	0.06	mm	60	34	9	6	6 28309 18513 8
AL	CM6L54525102A	0.05	0.02						6 28309 18520 6
MG	CM6L54525102M	0.03	0.02	in	2.4	1.3	0.3	0.2	6 28309 18521 3

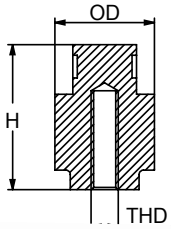
Also apply to Parsun





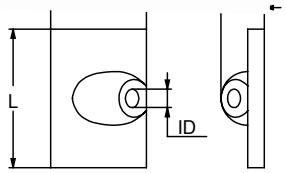
	PID	LB	KG		OD	H	UPC
ZN	CM6794525100Z	1.23	0.56	mm	90	85	6 28309 23406 5
				in	3.5	3.3	

MARINER 40 - 60 HP 10 X 1,25 / MARINER 40 - 60 HP 7/16" / YAMAHA 55 HP 10 X 1,25



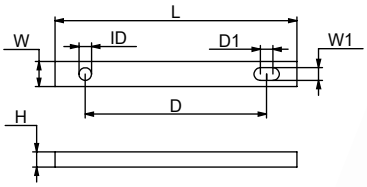
	PID	LB	KG		OD	H	THD	UPC
ZN	CM67F1132500Z	0.14	0.06	mm	22	32	M6	6 28309 23409 6
				in	0.9	1.3		

80-100 HP



	PID	LB	KG		L	W	H	ID	UPC
ZN	CM42121Z	0.07	0.03	mm	42	29	11	7	6 28309 20933 9
				in	1.66	1.1	0.42	0.28	

6-9.9 HP MARINER

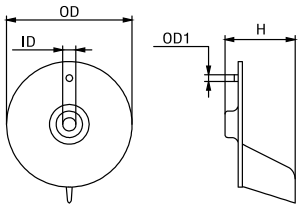


	PID	LB	KG		L	W	W1	H	D	D1	ID	UPC
ZN	CM825271Z	0.64	0.29	mm	193	19	6	12	167	8	6	6 28309 20937 7
				in	7.6	0.75	0.25	0.5	6.58	0.32	0.25	

*Remember: **Zinc** - Salt water only, **Aluminum** - Salt and Brackish water, **Magnesium** - Fresh water only.*

YAMAHA™ ANODES

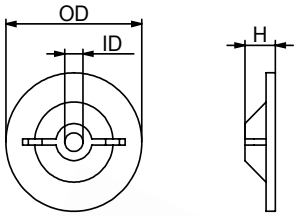
	PID	LB	KG		OD	OD1	ID	H	UPC
ZN	CM82795MZ	0.42	0.19	mm	95	5	9	53	6 28309 20938 4
AL	CM82795MA	0.15	0.07						6 28309 20959 9
MG	CM82795MM	0.11	0.05	in	3.7	0.19	0.33	2.1	6 28309 20980 3



25-30 HP YAMAHA

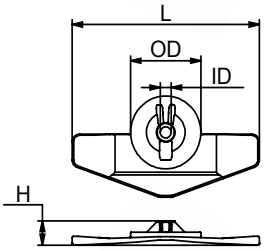
	PID	LB	KG		OD	ID	H	UPC
ZN	CM6E84525100Z	0.14	0.06	mm	45	6	10	6 28309 23877 3
				in	1.8	0.25	0.4	

9.9 HP



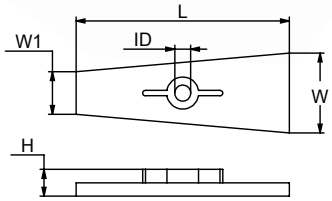
	PID	LB	KG		L	H	ID	OD	UPC
ZN	CM6E84525102Z	0.32	0.15	mm	120	15	7	45	6 28309 23421 8
				in	4.7	0.59	0.27	1.8	

9.9-15 HP



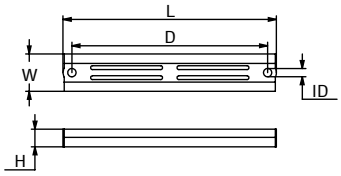
	PID	LB	KG		L	W	W1	H	ID	UPC
ZN	CM6G14525102Z	0.07	0.03	mm	80	30	14	6	7	6 28309 23424 9
				in	3.1	1.2	0.5	0.24	0.27	

6-8 HP UP TO 1989

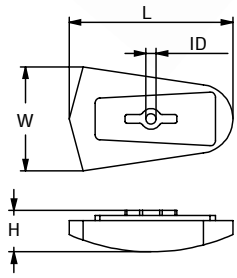


	PID	LB	KG		L	W	H	D	ID	UPC
ZN	CM6H14525101Z	1.23	0.56	mm	205	36	17	188	8	6 28309 21135 6
				in	8	1.42	0.67	7.4	0.31	

YAMAHA 40 - 50 -55 - 70 - 85 -90 HP

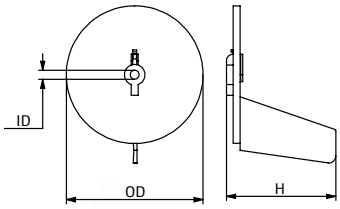


YAMAHA™ ANODES



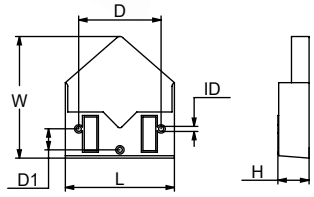
	PID	LB	KG		L	W	H	ID	UPC
ZN	CM6G14525103Z	0.37	0.17	mm	95	60	13	6	6 28309 23427 0
				in	3.7	2.4	0.5	0.25	

YAMAHA 6 HP UP TO 2000 - 8 HP



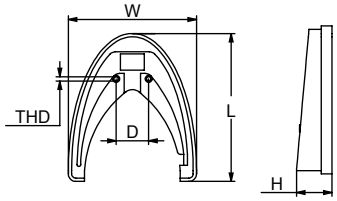
	PID	LB	KG		OD	ID	H	UPC
ZN	CM6T54537100Z	1.15	0.52	mm	100	11	88	6 28309 23463 8
				in	3.9	0.43	3.46	

130-160 HP



	PID	LB	KG		L	W	H	D	D1	ID	UPC
ZN	CM6T44583600Z	3.17	1.44	mm	150	130	39	118	25	9	6 28309 23460 7
				in	5.9	5.1	1.54	4.65	0.98	0.35	

V8

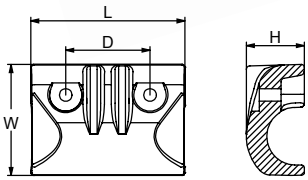


	PID	LB	KG		L	W	H	D	THD	UPC
ZN	CM6T54537300Z	2.36	1.07	mm	137	156	33	64	M8x1.25	6 28309 23466 9
				in	5.4	4.6	1.3	2.52		

130-260 HP
YAMAHA STERN DRIVE 1989

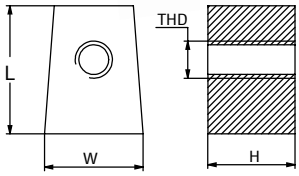
YAMAHA™ ANODES

	PID	LB	KG		L	W	H	D	UPC
ZN	CM63D4525101Z	1.19	0.54	mm	85	62	32	47	6 28309 23244 3
				in	3.3	2.4	1.3	1.85	



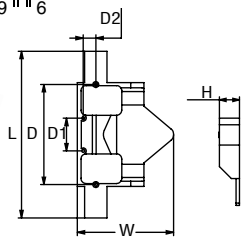
	PID	LB	KG		L	W	H	THD	UPC
ZN	CM67C4525100Z	0.26	0.12	mm	35	25	24	M8x1.25	6 28309 20936 0
AL	CM67C4525100A	0.12	0.05						6 28309 20957 5
MG	CM67C4525100M	0.07	0.03	in	1.36	1	0.93		6 28309 20978 0

OUTBOARD



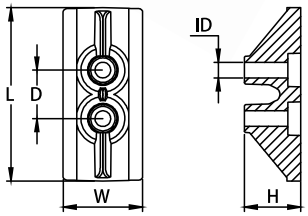
	PID	LB	KG		L	W	H	D	D1	D2	ID	UPC
ZN	CM6U04525100Z	3.3	1.5	mm	230	130	30	146	35	27	7	6 28309 23199 6
				in	9	5.1	1.18	5.75	1.37	1.06	0.26	

YAMAHA TD IN OUTBOARDS



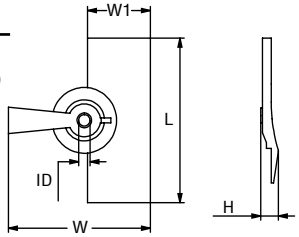
	PID	LB	KG		L	W	H	D	ID	UPC
ZN	CM6U34525101Z	0.62	0.28	mm	100	45.7	32.5	28	9	6 28309 23469 0
AL	CM6U34525101A	0.24	0.11							6 28309 23467 6
MG	CM6U34525101M	0.15	0.07	in	3.94	1.80	1.28	1.10	0.35	6 28309 23468 3

YAMAHA TD IN OUTBOARDS



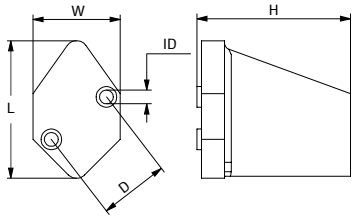
	PID	LB	KG		L	W	W1	H	ID	UPC
ZN	CM6G84525101Z	0.44	0.2	mm	100	9	37	20	7	6 28309 23430 0
				in	3.9	0.35	1.46	0.79	0.27	

9.9 HP



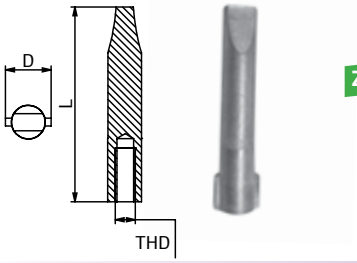
*Remember: **Zinc** - Salt water only, **Aluminum** - Salt and Brackish water, **Magnesium** - Fresh water only.*

YAMAHA™ ANODES



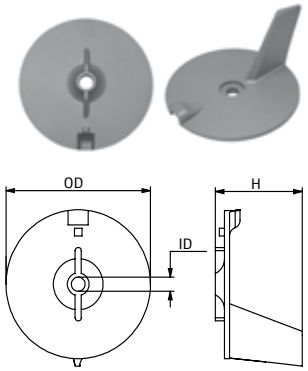
	PID	LB	KG		L	W	H	D	ID	UPC
ZN	CM66M4537100Z	0.18	0.08	mm	53	38	65	31	7	6 28309 23403 4
				in	2.1	1.5	2.6	1.22	0.28	

YAMAHA 9,9 - 15 HP



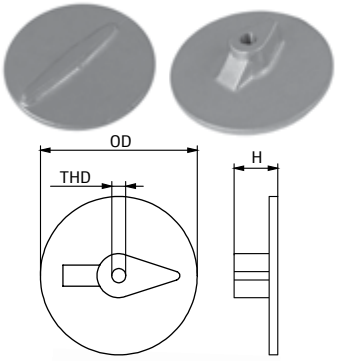
	PID	LB	KG		L	D	THD	UPC
ZN	CM62Y1132500Z	0.04	0.02	mm	50	11	M5	6 28309 21133 2
				in	2	0.43		

Also apply to Parsun



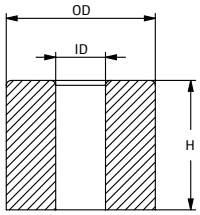
	PID	LB	KG		OD	ID	H	UPC
ZN	CM67C4537100Z	0.46	0.21	mm	95	9	57	6 28309 21134 9
AL	CM67C4537100A	0.2	0.09					6 28309 21158 5
MG	CM67C4537100M	0.11	0.05	in	3.7	0.35	2.2	6 28309 21179 0

F25 - F30 - F40 - F50 - F60



	PID	LB	KG		OD	H	THD	UPC
ZN	CM6E54537110Z	0.51	0.23	mm	90	22	M10x1.25	6 28309 23415 7
				in	3.5	0.87		

YAMAHA 60 -70 -80 -90 - 115 -130 -150 -175 -200 -225 - HP



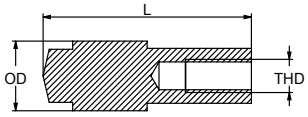
	PID	LB	KG		OD	ID	H	UPC
ZN	CM6G81132500Z	0.03	0.01	mm	14	5	16	6 28309 23151 4
				in	0.54	0.21	0.63	

4 - 6 -8 -9 - 9,9 -15 -20 -25 - 30 - 40 - 50 - 60 - 70 HP

*Remember: **Zinc** - Salt water only, **Aluminum** - Salt and Brackish water, **Magnesium** - Fresh water only.*

YAMAHA™ ANODES

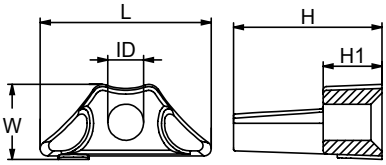
	PID	LB	KG		L	OD	THD	UPC
ZN	CM66M1132500Z	0.03	0.01	mm	32	11	5	6 28309 23144 6
AL	CM66M1132500A	0.01	0.01					6 28309 23156 9
MG	CM66M1132500M	0.01	0.01	in	1.3	0.4	0.2	6 28309 23170 5



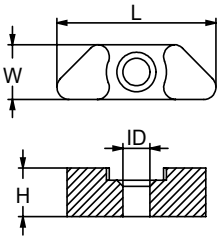
YAMAHA 9,9 - 15 - 200 - 225 -250 - 300 HP

	PID	LB	KG		L	W	H	H1	ID	UPC
ZN	CM6881132500Z	0.02	0.01	mm	23	10	20	8	5	6 28309 18524 4
AL	CM6881132500A	0.01	0.01							6 28309 23161 3
MG	CM6881132500M	0.01	0.01	in	0.9	0.4	0.8	0.3	0.2	6 28309 23175 0

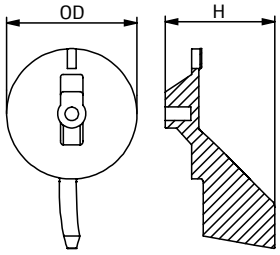
YAMAHA 40 - 50 -75 -80 -85 - 90 HP



	PID	LB	KG		L	W	H	ID	UPC
ZN	CM6E51132500Z	0.02	0.01	mm	27	9	10	5	6 28309 23150 7
AL	CM6E51132500A	0.01	0.01						6 28309 23162 0
MG	CM6E51132500M	0.01	0.01	in	1.1	0.4	0.4	0.2	6 28309 23176 7

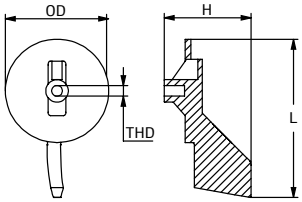


	PID	LB	KG		OD	H	THD	UPC
ZN	CM67F4537100Z	0.87	0.4	mm	91	76	M10z1.25	6 28309 23412 6
				in	3.58	3		



YAMAHA V6 - 60 - 70 -75 - 85 - 90 -115 -130 -150 -175 -200 -225 HP

	PID	LB	KG		OD	L	H	THD	UPC
ZN	CM6J94537100Z	1.14	0.52	mm	100	140	85	M10 x1.25	6 28309 10078 0
				in	3.94	5.51	3.35		



*Remember: **Zinc** - Salt water only, **Aluminum** - Salt and Brackish water, **Magnesium** - Fresh water only.*

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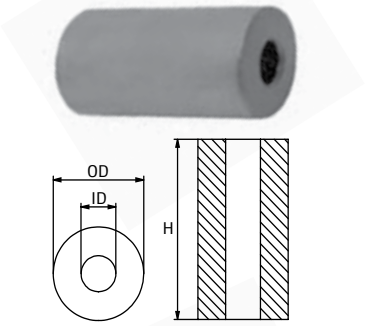
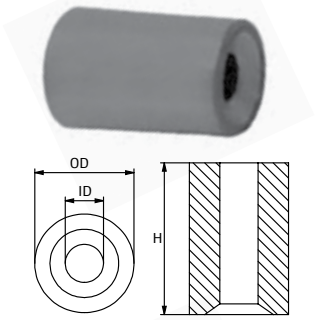
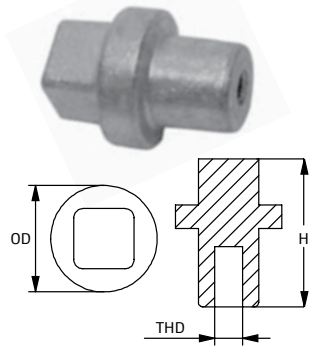
YAMAHA™ ANODES



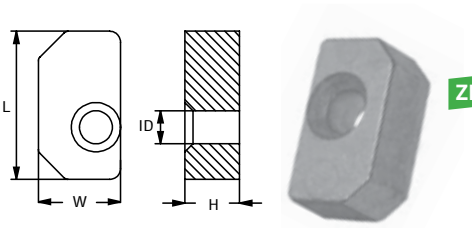
	PID	LB	KG		OD	ID	H	UPC
ZN	CM6BL1132500Z	0.04	0.02	mm	13	5	25	6 28309 23198 9
				in	0.51	0.2	1	



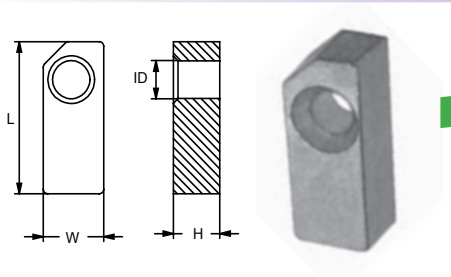
	PID	LB	KG		OD	ID	H	UPC
ZN	CM68T1132500Z	0.04	0.02	mm	13	5	20	6 28309 24107 0
				in	0.51	0.2	0.79	



	PID	LB	KG		OD	H	THD	UPC
ZN	CM67F1132501Z	0.08	0.04	mm	23	32	M6	6 28309 23409 6
				in	0.9	1.26		

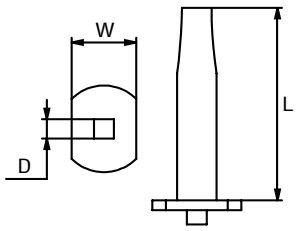


	PID	LB	KG		L	W	H	ID	UPC
ZN	CM63P1132511Z	0.05	0.02	mm	27	15	10	7	6 28309 23876 6
				in	1.06	0.59	0.39	0.28	



	PID	LB	KG		L	W	H	ID	UPC
ZN	CM63P1132501Z	0.03	0.01	mm	32	13	10	7	6 28309 23400 3
				in	1.26	0.51	0.39	0.28	

YAMAHA 150 - 200 -225 - 250 -300 - 350 HP



	PID	LB	KG		L	W	D	UPC
ZN	CM61A1132500Z	0.05	0.02	mm	70	13	4	6 28309 23397 6
				in	2.76	0.51	0.16	

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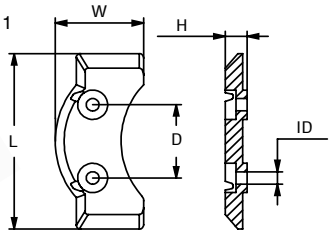
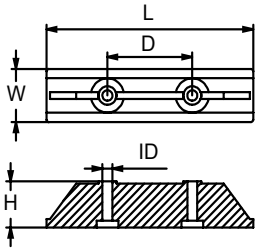
YAMAHA™ ANODES

	PID	LB	KG		L	W	H	D	ID	UPC
ZN	CM6U44537300Z	0.73	0.33	mm	120	70	14	50	9	6 28309 23475 1
				in	4.72	2.76	0.55	1.97	0.33	



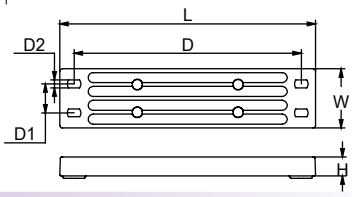
	PID	LB	KG		L	W	H	D	ID	UPC
ZN	CM6U44525100Z	1.51	0.68	mm	185	46	33	76	9	6 28309 23472 0
				in	7.28	1.81	1.3	3	0.35	



	PID	LB	KG		L	W	H	D	D1	D2	UPC
ZN	CM6AW4525100Z	1.46	0.663	mm	203	47	15	180.35	23	7.4	6 28309 25535 0
AL	CM6AW4525100A	0.56	0.254								6 28309 25540 4
MG	CM6AW4525100M	0.35	0.161	in	7.99	1.85	0.59	7.1	0.90	0.29	6 28309 25545 9

NEW

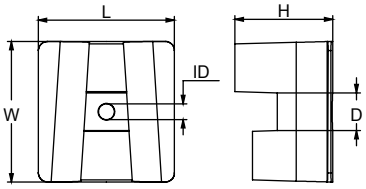
Yamaha OB Engine Anode 6AW-45251-00



	PID	LB	KG		L	W	H	ID	D	UPC
ZN	CM6AW4537300Z	2.42	1.097	mm	90	93	35.5	11	25	6 28309 25536 7
AL	CM6AW4537300A	0.93	0.421							6 28309 25541 1
MG	CM6AW4537300M	0.59	0.267	in	3.54	3.66	1.39	0.43	0.98	6 28309 25546 6

NEW

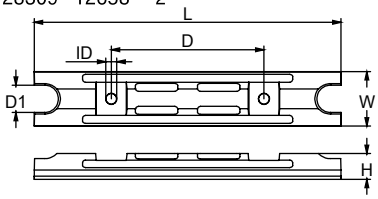
Yamaha OB Engine Anode 6AW-45373-00



	PID	LB	KG		L	W	H	ID	D	D1	UPC
ZN	CM6H14525102Z	1.08	0.494	mm	203	36	17	7	101	18	6 28309 10076 6
AL	CM6H14525102A	0.43	0.195								6 28309 12657 5
MG	CM6H14525102M	0.27	0.122	in	7.99	1.42	0.67	0.27	3.97	0.71	6 28309 12658 2

NEW

Yamaha OB Engine Anode 6H1-45251-02



*Remember: **Zinc** - Salt water only, **Aluminum** - Salt and Brackish water, **Magnesium** - Fresh water only.*

YAMAHA™ ANODE KITS

ALL KITS INCLUDE FASTENING HARDWARE, INSTALLATION INSTRUCTIONS, AND ALL OF THE ANODES REQUIRED FOR 100% PROTECTION.

	PID	LB	KG	Contains	Fits	UPC
AL	**CMY150KITA**	**1.28**	0.58	CM6G54525101 X 1 CM6J94537101 X 1	Yamaha 150-200 HP Outboards	6 28309 12663 6
MG	**CMY150KITM**	**0.89**	0.4			6 28309 15994 8

	PID	LB	KG	Contains	Fits	UPC
AL	**CMY150CRKITA**	**1.28**	0.58	CM6G54525101 X 1 CM6K14537102 X 1	Yamaha 150-200 HP Outboards (Counter Rotation)	6 28309 12664 3
MG	**CMY150CRKITM**	**0.8**	0.36			6 28309 24697 6

	PID	LB	KG	Contains	Fits	UPC
AL	**CMY200250KITA**	**1.39**	0.63	CM6G54525101 X 1 CM61A4537100 X 1	Yamaha 200-250 HP Outboards	6 28309 12662 9
MG	**CMY200250KITM**	**0.97**	0.44			6 28309 15995 5

	PID	LB	KG	Contains	Fits	UPC
AL	**CMYHP200300KITA**	**1.3**	0.59	CM6G54525101 X 1 CM69L4537100 X 1	Yamaha High Performance 200 - 300 HP Outboards	6 28309 12665 0
MG	**CMYHP200300KITM**	**0.85**	0.39			6 28309 23322 8

YAMAHA MARINER™ ANODE KITS NEW

	PID	LB	KG	Contains	Fits	UPC
ZN	**CMY6090KITZ**	**2.429**	1.102	CM6884537102 X 1 CM6H14525102 X 1	Yamaha 60-90HP	6 28309 24975 5
AL	**CMY6090KITA**	**1.16**	0.525			6 28309 24973 1
MG	**CMY6090KITM**	**0.873**	0.396			6 28309 24974 8

	PID	LB	KG	Contains	Fits	UPC
ZN	**CMY4060KITZ**	**1.79**	0.81	CM65W4525100 X 3 CM67C4525100 X 1 CM67C4537100 X 1	Yamaha 4T 40-60 HP	6 28309 24972 4
AL	**CMY4060KITA**	**0.92**	0.42			6 28309 24970 0
MG	**CMY4060KITM**	**0.74**	0.34			6 28309 24971 7

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YAMAHA MARINER™ ANODE KITS

ALL KITS INCLUDE FASTENING HARDWARE, INSTALLATION INSTRUCTIONS, AND ALL OF THE ANODES REQUIRED FOR 100% PROTECTION.

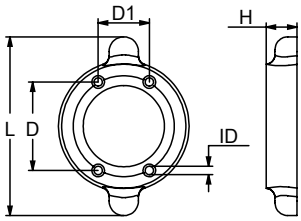
	PID	LB	KG	Contains	Fits	UPC
ZN	CMY4050KITZ	2.49	1.13	CM6644537101 X 1 CM65W4525100 X 1 CM63D4525101 X 1 CM67C4525100 X 1 CM6881132500 X 1	Yamaha 40-50HP	6 28309 25991 4
AL	CMY4050KITA	1.08	0.49			6 28309 26015 6
MG	CMY4050KITM	0.75	0.34			6 28309 26037 8

	PID	LB	KG	Contains	Fits	UPC
ZN	CMY80100KITZ	2.27	1.03	CM6H14525102 X 1 CM67F4537100 X 1 CM67F1132500 X 1	Yamaha 80-100HP	6 28309 25992 1
AL	CMY80100KITA	0.99	0.45			6 28309 26016 3
MG	CMY80100KITM	0.68	0.31			6 28309 26038 5

YANMAR™ ANODES

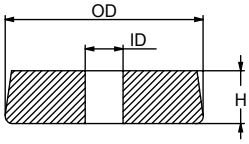
	PID	LB	KG		L	D	D1	ID	H	UPC
ZN	CM19642002652Z	1.88	0.85	mm	148	73	42	7	7	6 28309 11550 0
				in	5.8	2.9	1.67	0.3	0.26	

YANMAR - SD 20 - 30 - 40 -50 -60



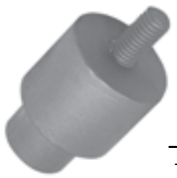
	PID	LB	KG		OD	ID	H	UPC
ZN	SGMA015Z	0.44	0.2	mm	53	10	14	6 28309 18309 7
				in	2.1	0.39	0.5	

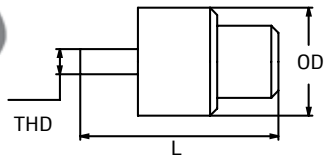
70-85 HP



	PID	LB	KG		L	OD	THD	UPC
ZN	SGYN068Z	0.36	0.17	mm	55	30	M8	6 28309 18318 9
				in	2.2	1.2		

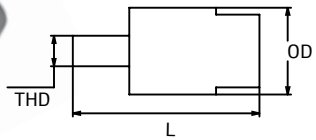
8-10 HP W/ THREADNSTEEL CORE





	PID	LB	KG		L	OD	THD	UPC
ZN	SGYN069Z	0.15	0.07	mm	43	20	M8	6 28309 18319 6
				in	1.7	0.8		
ZN	SGYN224Z	0.1	0.044	mm	36	20	M8	6 28309 18320 2
				in	1.42	0.80		

YANMAR 8 - 12 HP W/ THREADNSTEEL CORE



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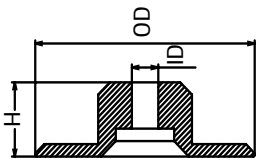
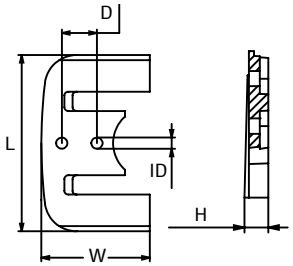
YANMAR™ ANODES



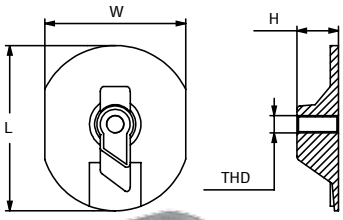
	PID	LB	KG		OD	ID	H	UPC
ZN	SGYN261Z	0.42	0.19	mm	75	9	24	6 28309 18321 9
				in	2.9	0.35	0.9	

YANMAR SERIES

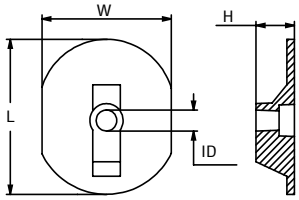


	PID	LB	KG		L	W	D	ID	H	UPC
ZN	SGYN245Z	2	0.91	mm	178	108	35	11	17	6 28309 22481 3
				in	7	4.25	1.38	0.44	0.68	

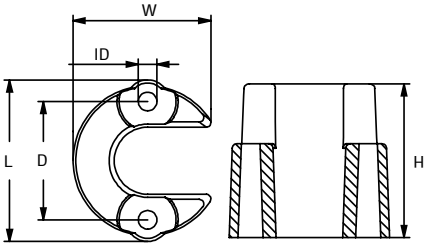
	PID	LB	KG		L	W	D	THD	UPC
ZN	SGYN744Z	0.68	0.31	mm	96	82	24	M10 x1.5	6 28309 22483 7
				in	3.79	3.23	0.96		



	PID	LB	KG		L	W	H	ID	UPC
ZN	SGYN745Z	0.64	0.29	mm	96	82	24	12	6 28309 22484 4
				in	3.79	3.23	0.96	0.47	



	PID	LB	KG		L	W	H	D	ID	UPC
ZN	SGYN746Z	0.64	0.29	mm	1	7	4	7	6	6 28309 22485 1
				in	0.04	0.28	0.16	0.28	0.24	



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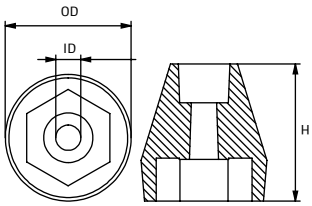
YANMAR™ ANODES

	PID	LB	KG		OD	ID	H	UPC
ZN	SGYN747Z	1.13	0.51	mm	54	11	61	6 28309 22486 8
				in	2.11	0.44	2.39	



YANMAR™ ANODE KITS

ALL KITS INCLUDE FASTENING HARDWARE, INSTALLATION INSTRUCTIONS, AND ALL OF THE ANODES REQUIRED FOR 100% PROTECTION.

	PID	LB	KG	Contains	Fits	UPC
ZN	CM19644002660KITZ	0.8	0.36	CM19644002660 X 1	Yanmar SD20, SD30, SD31,SD40, SD50 and SD60 Saildrives	6 28309 12719 0

PID	Fits	UPC
CM19644002690	Yanmar SD20, SD30, SD31, SD40, SD50 and SD60 Saildrives	6 28309 23243 6

ADAPTER MOUNTING KIT: Enables the installation of a split ring anode onto the lower units of Yanmar SD20, SD30, SD31, SD40, SD50 and SD60 saildrives. Contains: 2 x Stainless Steel Plates, 4 x Screw DIN7991 (countersink w/hex socket head) M6 x 1.0 - 16, 2 x Screw DIN912 (Hex Socket Head) M8 x 1.25 - 20

	PID	LB	KG	Contains	Fits	UPC
ZN	SGYNZT350Z	6.14	2.79	-SGYN245 X 1 -SGYN745 X 1 -SGYN747 X 1 -SGYN744 X1 -SGYN746 X 2	Yanmar SD20, SD30, SD31, SD40 and SD50 Saildrives	6 28309 22487 5

	PID	LB	KG	Contains	Fits	UPC
ZN	CM11977392600KITZ	0.88	0.40	CME2Z X 1 CME1FZ X 4	Yanmar 119773-92600	6 28309 25969 3

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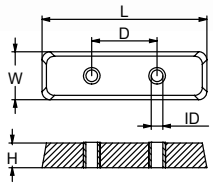
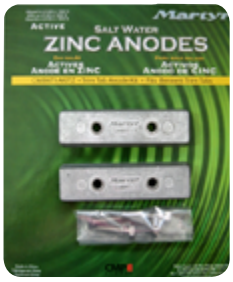
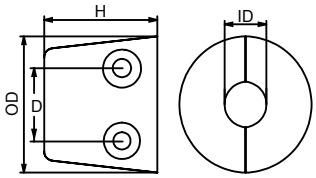




BENNETT TRIM TAB™ ANODES AND KITS

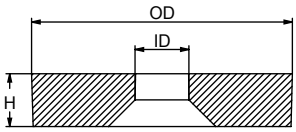
	PID	LB	KG		L	W	H	D	ID	UPC
ZN	CMBNT1AZ	0.45	0.2	mm	96	25	15	38	7	6 28309 11622 4
AL	CMBNT1AA	0.17	0.08	in	3.78	1.1	0.57	1.5	0.26	6 28309 17570 2
MG	CMBNT1AM	0.12	0.05							6 28309 24300 5

	PID	LB	KG		L	W	H	D	ID	UPC
ZN	CMBNT1AKITZ	1.2	0.54	mm	96	25	15	38	7	6 28309 12474 8
AL	CMBNT1AKITA	0.44	0.2	in	3.78	1.1	0.57	1.5	0.26	6 28309 24188 9
MG	CMBNT1AKITM	0.32	0.15							6 28309 24299 2



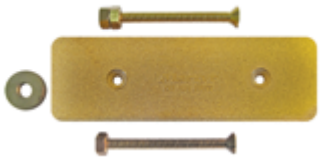
DE-ICER/AERATOR ANODES

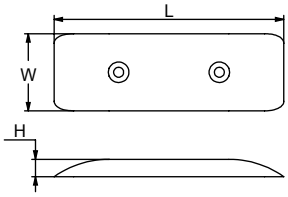
	PID	LB	KG		OD	ID	D	H	UPC
ZN	CMDEICERZ	0.34	0.15	mm	38	13	20	32	6 28309 12987 3
AL	CMDEICERA	0.15	0.07	in	1.5	0.5	0.8	1.26	6 28309 12856 2
MG	CMDEICERM	0.1	0.05						6 28309 12961 3



FRIGO-BOAT™ ANODES

	PID	LB	KG		OD	ID	H	UPC
ZN	CM51525Z	0.08	0.04	mm	35	7	7	6 28309 17081 3
AL	CM51525A	0.04	0.02	in	1.36	0.28	0.28	6 28309 19595 3
MG	CM51525M	0.02	0.01					6 28309 24278 7





GROUND PLATE ANODES

PID	LB	KG		L	W	H	Fasterner	UPC
10421419	3	1.4	mm	152	51	13	¼ - 20	6 28309 21419 7
			in	6	2	0.5		
10421420	5	2.3	mm	203	64	13	¼ - 20	6 28309 21420 3
			in	8	2.5	0.5		
10421421	7	3.2	mm	305	76	13	⅜ - 16	6 28309 21421 0
			in	12	3	0.5		
10421422	13	5.9	mm	456	152	13	⅜ - 16	6 28309 21422 7
			in	18	6	0.5		

Washer Material: Bronze | Bolt Material: Bronze/Gold-Plated | Nut Material: Bronze/Gold-Plated

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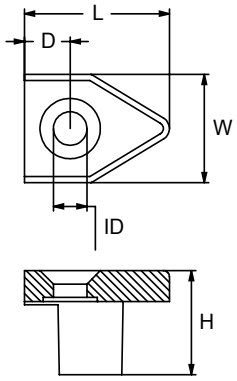
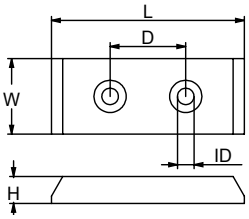
LINE CUTTER ANODES

		PID	LB	KG		L	W	H	D	ID	UPC
ZN	Model A	CMLCAZ	0.035	0.016	mm	24	18	17	8	5	6 28309 17085 1
AL		CMLCAA	0.014	0.006							6 28309 24219 0
MG		CMLCAM	0.009	0.004	in	0.9	0.7	0.7	0.3	0.2	6 28309 24348 7
ZN	Model B	CMLCBZ	0.035	0.016	mm	24	18	17	8	5	6 28309 17086 8
AL		CMLCBA	0.014	0.006							6 28309 24220 6
MG		CMLCBM	0.009	0.004	in	0.9	0.7	0.7	0.3	0.2	6 28309 24349 4
ZN	Model C,D,E	CMLCCDEZ	0.097	0.044	mm	30	26	31	13	5	6 28309 17087 5
AL		CMLCCDEA	0.038	0.017							6 28309 24221 3
MG		CMLCCDEM	0.024	0.011	in	1.2	1	1.2	0.5	0.2	6 28309 24350 0
ZN	Model F1	CMLCF1Z	0.14	0.06	mm	49	26	44	25	5	6 28309 17478 1
AL		CMLCF1A	0.055	0.025							6 28309 24222 0
MG		CMLCF1M	0.035	0.016	in	1.93	1	1.73	1	0.2	6 28309 24351 7

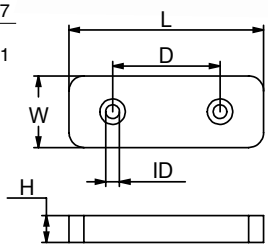


SEA STRANER ANODES

	PID	LB	KG		L	W	H	D	ID	UPC
ZN	CMSZ1Z	0.58	0.27	mm	97	38	14	38	8	6 28309 17094 3
AL	CMSZ1A	0.23	0.11							6 28309 17574 0
MG	CMSZ1M	0.16	0.07	in	3.8	1.5	0.5	1.5	0.3	6 28309 24384 5

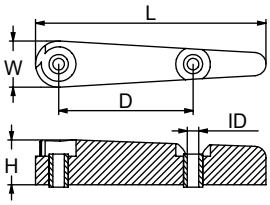


	PID	LB	KG		L	W	H	D	ID	UPC
ZN	CM656934Z (DOKA)	0.35	0.16	mm	83	31	11	46	6	6 28309 11306 3
AL	CM656934A (DOKA)	0.14	0.06							6 28309 11551 7
MG	CM656934M (DOKA)	0.10	0.04	in	3.25	1.20	0.45	1.80	0.23	6 28309 24283 1



TWIN DISC™ ANODES

	PID	LB	KG		L	W	H	D	ID	UPC
ZN	ARNSMALLZ	1.53	0.69	mm	156	32	32	89	8	6 28309 11376 6
AL	ARNSMALLA	0.60	0.27							6 28309 12343 7
MG	ARNSMALLM	0.43	0.20	in	6.13	1.25	1.25	3.50	0.30	6 28309 17599 3
ZN	ARNLARGEZ	4.16	1.89	mm	191	48	48	127	10	6 28309 11377 3
AL	ARNLARGEA	1.63	0.74							6 28309 12342 0
MG	ARNLARGEM	1.17	0.53	in	7.50	1.88	1.88	5.00	0.40	6 28309 17598 6



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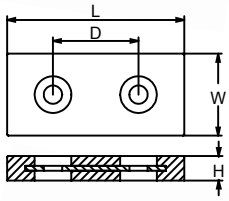
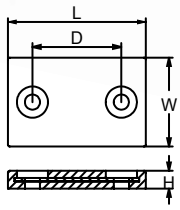
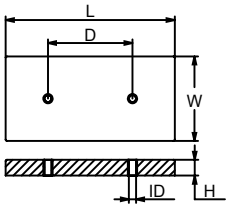
TWIN DISK™ ANODES



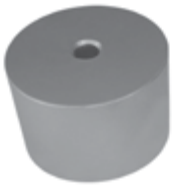
	PID	LB	KG		L	W	H	UPC
ZN	CMFL465Z	2.63	1.19	mm	145	67	20	6 28309 23657 1
				in	5.71	2.64	0.79	

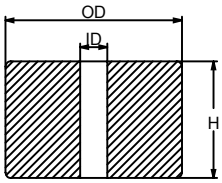


	PID	LB	KG		L	W	D	H	UPC
ZN	CMAR580Z	4.26	1.94	mm	155	100	75	20	6 28309 23549 9
				in	6.10	3.94	2.95	0.79	

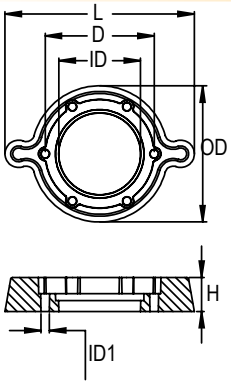


	PID	LB	KG		L	W	D	H	UPC
ZN	CMAR670Z	18.38	8.35	mm	300	150	125	28	6 28309 23552 9
				in	11.81	5.91	4.92	1.10	





	PID	LB	KG		OD	H	ID	UPC
ZN	CMAR671Z	2.09	0.95	mm	65	43	10	6 28309 23555 0
				in	2.56	1.69	0.39	



	PID	LB	KG		L	H	D	OD	ID	ID1	UPC
ZN	CMAR672Z	1.37	0.62	mm	139	25	80	100	60	7	6 28309 23558 1
				in	5.12	1	3.15	3.94	2.36	0.28	

TECHNODRIVE SP60 SAILDRIVE

*Remember: **Zinc** - Salt water only, **Aluminum** - Salt and Brackish water, **Magnesium** - Fresh water only.*

ENGINE COOLING SYSTEM ANODES

	PID	LB	KG		L	OD	NPT	UPC
ZN	CME00Z	**0.05**	0.02	mm	51	6	1/8	6 28309 10319 4
				in	**2**	**1/4**		
ZN	CME0Z	**0.09**	0.04	mm	45	10	1/4	6 28309 10318 7
				in	**1¾**	**3/8**		
ZN	CME1Z	**0.17**	0.08	mm	45	13	3/8	6 28309 10320 0
				in	**1¾**	**1/2**		
ZN	CME1DZ	**0.15**	0.07	mm	45	13	3/8	6 28309 10321 7
				in	**1¾**	**1/2**		
ZN	CME1EZ	**0.15**	0.07	mm	38	13	3/8	6 28309 10322 4
				in	**1½**	**1/2**		
ZN	CME1FZ	**0.13**	0.06	mm	32	13	3/8	6 28309 10323 1
				in	**1¼**	**1/2**		
ZN	CME1GZ	**0.1**	0.05	mm	25	13	3/8	6 28309 10324 8
				in	**1**	**1/2**		
ZN	CME1HZ	**0.13**	0.06	mm	51	10	3/8	6 28309 10325 5
				in	**2**	**3/8**		
ZN	CME2Z	**0.29**	0.13	mm	51	16	1/2	6 28309 10326 2
				in	**2**	**5/8**		
ZN	CME2SZ	**0.22**	0.1	mm	38	16	1/2	6 28309 10327 9
				in	**1½**	**5/8**		
ZN	CME3Z	**0.44**	0.2	mm	51	19	3/4	6 28309 10328 6
				in	**2**	**3/4**		
ZN	CME3SZ	**0.33**	0.15	mm	19	19	3/4	6 28309 11326 1
				in	**3/4**	**3/4**		
ZN	CME4Z	**0.62**	0.28	mm	86	19	3/4	6 28309 10329 3
				in	**3 ⅜**	**3/4**		
ZN	CME5Z	**0.64**	0.29	mm	92	19	3/4	6 28309 10330 9
				in	**5 ⅜**	**3/4**		
ZN	CME2BSPZ	**0.28**	0.13	mm	51	16	1/2	6 28309 12176 1
				in	**2**	**5/8**		
ZN	CME3BSPZ	**0.46**	0.21	mm	51	19	3/4	6 28309 12177 8
				in	**2**	**3/4**		
ZN	CME0AZ	**0.12**	0.05	mm	63	10	1/4	6 28309 17459 0
				in	**2 ½**	**3/8**		
ZN	CME2BZ	**0.50**	0.23	mm	76	16	1/2	6 28309 17460 6
				in	**3**	**5/8**		

PID	LB	KG	NPT	UNC	UPC
CMEP00	0.02	0.01	1/8	1/4	6 28309 15844 6
CMEP0	0.05	0.02	1/4	5/16	6 28309 15843 9
CMEP1	0.11	0.06	3/8	3/8	6 28309 15846 0
CMEP2	0.15	0.07	1/2	7/16	6 28309 15847 7
CMEP3	0.22	0.1	3/4	1/2	6 28309 15849 1
CMEP2BSP	0.15	0.07	1/2	7/16	6 28309 15848 4
CMEP3BSP	0.22	0.10	3/4	1/2	6 28309 15850 7

BRASS PLUG REPLACEMENT

*Remember: **Zinc** - Salt water only, **Aluminum** - Salt and Brackish water, **Magnesium** - Fresh water only.*

ENGINE COOLING SYSTEM ANODES

ANODE REPLACEMENT

	PID	LB	KG		L	OD	NPT	UNC	UPC
ZN	CMEZ00Z	0.026	0.012	mm	51	6	-	1/4	6 28309 10338 5
				in	1.9	1/4			
ZN	CMEZ0Z	0.053	0.024	mm	45	10	-	5/16	6 28309 10337 8
				in	1¾	3/8			
ZN	CMEZ1Z	0.11	0.05	mm	45	13	-	3/8	6 28309 10339 2
				in	2	1/2			
ZN	CMEZ1DZ	0.07	0.03	mm	45	13	-	3/8	6 28309 10340 8
				in	1¾	1/2			
ZN	CMEZ1EZ	0.09	0.04	mm	38	13	-	3/8	6 28309 10341 5
				in	1½	1/2			
ZN	CMEZ1FZ	0.07	0.03	mm	32	13	-	3/8	6 28309 10342 2
				in	1¼	1/2			
ZN	CMEZ1GZ	0.06	0.03	mm	25	13	-	3/8	6 28309 10343 9
				in	1	1/2			
ZN	CMEZ1HZ	0.07	0.028	mm	51	10	-	3/8	6 28309 10344 6
				in	2	3/8			
ZN	CMEZ2Z	0.15	0.07	mm	51	16	-	7/16	6 28309 10345 3
				in	2	5/8			
ZN	CMEZ2SZ	0.13	0.06	mm	38	16	-	7/16	6 28309 10346 0
				in	1½	5/8			
ZN	CMEZ3Z	0.22	0.1	mm	51	19	-	1/2	6 28309 10347 7
				in	2	3/4			
ZN	CMEZ3SZ	0.17	0.08	mm	19	19	-	1/2	6 28309 12233 1
				in	3/4	3/4			
ZN	CMEZ4Z	0.38	0.17	mm	86	19	-	1/2	6 28309 10348 4
				in	3 ⅜	3/4			
ZN	CMEZ5Z	0.41	0.19	mm	92	19	-	1/2	6 28309 10349 1
				in	3 ⅝	3/4			

	ENGINE	PID		L	OD	NPT	UNC	UPC
ZN	AIFO	CM8105277Z	mm	26	14	--	Ø10	6 28309 23487 4
ZN	AIFO	CM8105277PZ	mm	26	14	M18 x1.5	--	6 28309 23486 7
Plug	AIFO	CMEBP1018Z	mm	--	--	18 x1.5	Ø10	6 28309 23887 2
ZN	AIFO	CM8101772Z	mm	20	20	--	Ø14	6 28309 23481 2
ZN	AIFO	CM8101772PZ	mm	20	20	M28 x1.5	--	6 28309 23480 5
Plug	AIFO	CMEBP1428	mm	--	--	M28 x1.5	Ø14	6 28309 23889 6
ZN	AIFO	CMAF920Z	mm	20	9	--	Ø4.5	6 28309 23543 7
ZN	AIFO	CMAF920PZ	mm	20	9	M12 x1.5	--	6 28309 23542 0
Plug	AIFO	CMEBP4512	mm	--	--	M12 x1.5	Ø4.5	6 28309 23892 6
ZN	AIFO	CM8109743Z	mm	18	10	--	Ø7	6 28309 23493 5
ZN	AIFO	CM8109743PZ	mm	18	10	M12 x1.5	--	6 28309 23492 8

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ENGINE COOLING SYSTEM ANODES

	ENGINE	PID		L	OD		NPT	UNC	UPC
Plug	AIFO	**CMEBP712**	mm	--	--	in	M12 x1.5	Ø7	6 28309 24428 6
ZN	AIFO	**CMAF720Z**	mm	20	7	in	--	Ø5	6 28309 23537 6
ZN	AIFO	**CMEAF720PZ**	mm	20	7	in	M10 x1.25	--	6 28309 23621 2
Plug	AIFO	**CMEBP510**	mm	--	--	in	M10 x1.25	Ø5	6 28309 24427 9

	ENGINE	PID		L	OD		NPT	UNC	UPC
ZN	BMW	**CMBM1241Z**	mm	41	12	in	--	3/8	6 28309 23570 3
ZN	BMW	**CMBM1241PZ**	mm	41	12	in	3/8	--	6 28309 23569 7
Plug	BMW	**CMEBP3838**	mm	--	--	in	3/8	3/8	6 28309 24426 2

	ENGINE	PID		L	OD		NPT	UNC	UPC
ZN	BAUDOUIN	**CMEBD20Z**	mm	45	20	in	--	M8 x1.25	6 28309 21477 7
ZN	BAUDOUIN	**CMEBD20PZ**	mm	45	20	in	M24 x1.5	--	6 28309 21476 0
Plug	BAUDOUIN	**CMEBP824**	mm	--	--	in	M24 x1.5	M8 x1.25	6 28309 23253 5

	ENGINE	PID		L	OD		NPT	UNC	UPC
ZN	BUKH	**CMB00E0450Z**	mm	35	12	in	--	M5	6 28309 23561 1
ZN	BUKH	**CMBK1240Z**	mm	40	12	in	--	3/8	6 28309 23564 2

	ENGINE	PID		L	OD		NPT	UNC	UPC
ZN	CATERPILLAR	**CM8515850Z**	mm	102	9	in	3/4	--	6 28309 12174 7
ZN	CATERPILLAR	**CMBM1241Z**	mm	41	12	in	--	3/8	6 28309 23570 3
ZN	CATERPILLAR	**CMBM1241PZ**	mm	41	12	in	3/8	--	6 28309 23569 7
Plug	CATERPILLAR	**CMEBP3838**	mm	--	--	in	3/8	3/8	6 28309 24426 2
ZN	CATERPILLAR	**CM6L2288Z**	mm	64	16	in	--	3/8	6 28309 12179 2
ZN	CATERPILLAR	**CM6L2288PZ** ***(2284 SERIES)***	mm	64	16	in	1/2	--	6 28309 24110 0
Plug	CATERPILLAR	**CMEBP3812**	mm	--	--	in	1/2	3/8	6 28309 24425 5
ZN	CATERPILLAR	**CM6L2289Z** ***(2289 SERIES)***	mm	76	16	in	--	3/8	6 28309 23454 6
ZN	CATERPILLAR	**CM6L2289PZ**	mm	76	16	in	1/2	--	6 28309 23453 9
ZN	CATERPILLAR	**CM6L2283Z**	mm	55	10	in	--	1/4	6 28309 12167 9
ZN	CATERPILLAR	**CM6L2283PZ**	mm	55	10	in	1/4	--	6 28309 24109 4
Plug	CATERPILLAR	**CMEBP1414**	mm	--	--	in	1/4	1/4	6 28309 24424 8
ZN	CATERPILLAR	**CM6L2016Z**	mm	20	22	in	--	5/8	6 28309 12339 0

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ENGINE COOLING SYSTEM ANODES

	ENGINE	PID		L	OD		NPT	UNC	UPC
ZN	CATERPILLAR	**CM6L2016PZ**	mm	20	22	in	3/4	--	6 28309 24108 7
Plug	CATERPILLAR	**CMEBP5834**	mm	--	--	in	3/4	5/8	6 28309 23895 7
ZN	CATERPILLAR	**CM6L3104Z**	mm	38	10	in	--	1/4	6 28309 23457 7
ZN	CATERPILLAR	**CMCA3208Z** ***(3208 SERIES)***	mm	26	14	in	--	Ø12	6 28309 23597 0
ZN	CATERPILLAR	**CM6L2285Z**	mm	54	32	in	--	3/4	6 28309 23448 5
ZN	CATERPILLAR	**CM6L2284Z** ***(2284 SERIES)***	mm	33	14	in	--	5/16	6 28309 23445 4
ZN	CATERPILLAR	**CM2280GZ**	mm	38	12	in	--	7/16	6 28309 24097 4
ZN	CATERPILLAR	**CM2280GPZ**	mm	38	12	in	3/8	--	6 28309 24096 7
Plug	CATERPILLAR	**CMEBP71638**	mm	--	--	in	3/8	7/16	6 28309 24429 3
ZN	CATERPILLAR	**CMCA1230Z**	mm	30	12	in	--	3/8	6 28309 23594 9
ZN	CATERPILLAR	**CMCA1230PZ**	mm	30	12	in	3/8	--	6 28309 23593 2
Plug	CATERPILLAR	**CMEBP3838**	mm	--	--	in	3/8	3/8	6 28309 24426 2
ZN	CATERPILLAR	**CM6L2283Z**	mm	57	10	in	--	1/4	6 28309 12167 9
ZN	CATERPILLAR	**CM6L2288Z**	mm	63	10	in	--	1/4	6 28309 12179 2
ZN	CATERPILLAR	**CM6L2016Z**	mm	19	22	in	--	5/8	6 28309 12339 0

	ENGINE	PID		L	OD		NPT	UNC	UPC
ZN	CUMMINS	**CMCU1650Z**	mm	50	16	in	--	Ø12	6 28309 23615 1
ZN	CUMMINS	**CMCU1650PZ**	mm	50	16	in	1/2	--	6 28309 23614 4
Plug	CUMMINS	**CMEBP1212**	mm	--	--	in	1/2	Ø12	6 28309 23888 9
ZN	CUMMINS	**CMECU16Z**	mm	50	16	in	--	7/16	6 28309 21483 8
ZN	CUMMINS	**CMECU16PZ**	mm	50	16	in	1/2	--	6 28309 21482 1
ZN	CUMMINS	**CMCU1865Z**	mm	65	16	in	--	M16	6 28309 23618 2
ZN	CUMMINS	**CMCU1645Z**	mm	45	16	in	--	3/8	6 28309 23609 0
ZN	CUMMINS	**CMCU1020Z**	mm	20	10	in	--	M6	6 28309 23606 9
ZN	CUMMINS	**CMCU1020PZ**	mm	20	10	in	3/8	--	6 28309 23605 2

	ENGINE	PID		L	OD		NPT	UNC	UPC
ZN	FORD	**CMFO1018Z**	mm	18	10	in	--	Ø8.5	6 28309 23663 2
ZN	FORD	**CMFO1018PZ**	mm	18	10	in	1/4	--	6 28309 23662 5
Plug	FORD	**CMEBP8514**	mm	--	--	in	1/4	Ø8.5	6 28309 23900 8
ZN	FORD	**CMFO1332Z**	mm	32	13	in	--	Ø9	6 28309 23666 3

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ENGINE COOLING SYSTEM ANODES

	ENGINE	PID		L	OD		NPT	UNC	UPC
ZN	GENERAL MOTOS	**CM8517479Z**	mm	40	16	in	--	7/16	6 28309 23513 0
ZN	GENERAL MOTOS	**CM8517479PZ**	mm	40	16	in	1/2	--	6 28309 23512 3
ZN	GENERAL MOTOS	**CM8515851Z** ***(8515851 SERIES)***	mm	80	20	in	--	5/8	6 28309 23507 9
ZN	GENERAL MOTOS	**CM8515842Z**	mm	80	20	in	3/4	--	6 28309 12175 4
ZN	GENERAL MOTOS	**CM8925832Z**	mm	40	13	in	--	3/8	6 28309 23522 2
ZN	GENERAL MOTOS	**CMEZ2Z**	mm	50	15	in	--	7/16	6 28309 10345 3

	ENGINE	PID		L	OD		NPT	UNC	UPC
ZN	ISOTTA FRASCHINI	**CMIF2034Z**	mm	34	20	in	--	M18 x1.5	6 28309 23672 4
ZN	ISOTTA FRASCHINI	**CMIF2034PZ**	mm	34	20	in	M24 x1.5	--	6 28309 23671 7
Plug	ISOTTA FRASCHINI	**CMMP1348Z**	mm	--	--	in	M24 x1.5	M18 x1.5	6 28309 23723 3

	ENGINE	PID		L	OD		NPT	UNC	UPC
ZN	MPM	**CMMP1348Z**	mm	48	13	in	--	3/8	6 28309 23723 3

	ENGINE	PID		L	OD		NPT	UNC	UPC
ZN	NANNI	**CM970494635Z**	mm	20	10	in	--	Ø8	6 28309 23531 4
ZN	NANNI	**CM970494635PZ**	mm	20	10	in	M16 x1.5	--	6 28309 23530 7
Plug	NANNI	**CMEBP816**	mm	--	--	in	M16 x1.5	Ø8	6 28309 23898 8
ZN	NANNI	**CMNN2525Z**	mm	25	25	in	--	Ø22	6 28309 23758 5
ZN	NANNI	**CMNN2525PZ**	mm	25	25	in	M30 x1.5	--	6 28309 23757 8
Plug	NANNI	**CMEBP2230**	mm	--	--	in	M30 x1.5	Ø22	6 28309 23891 9

	ENGINE	PID		L	OD		NPT	UNC	UPC
ZN	ONAN	**CMON1030Z**	mm	30	10	in	--	Ø8	6 28309 23761 5
ZN	ONAN	**CM1301341PZ**	mm	30	10	in	3/8	--	6 28309 23330 3
Plug	ONAN	**CMEBP51638**	mm	--	--	in	3/8	5/16	6 28309 23893 3
ZN	ONAN	**CMON1326Z**	mm	26	13	in	--	Ø9.5	6 28309 23770 7
ZN	ONAN	**CMON1131Z**	mm	31	11	in	--	M8	6 28309 23767 7
ZN	ONAN	**CMON1131PZ**	mm	31	11	in	3/8	--	6 28309 23766 0
Plug	ONAN	**CMEBP838**	mm	--	--	in	3/8	M8	6 28309 23899 5

	ENGINE	PID		L	OD		NPT	UNC	UPC
ZN	SCANIA	**CMSC1645Z**	mm	45	16	in	--	M12 x1.0	6 28309 23812 4

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ENGINE COOLING SYSTEM ANODES

	ENGINE	PID		L	OD		NPT	UNC	UPC
ZN	RENAULT	**CMERE14Z**	mm	20	15	in	--	Ø12	6 28309 21142 4
ZN	RENAULT	**CMERE14PZ**	mm	20	15	in	M18 x1.5	--	6 28309 21141 7
Plug	RENAULT	**CMEREBP18**	mm	--	--	in	M18 x1.5	Ø12	6 28309 23254 2
Plug	RENAULT	**CMRE1130PZ**	mm	30	11	in	3/8 conico	M8	6 28309 23782 0

	ENGINE	PID		L	OD		NPT	UNC	UPC
ZN	VM	**CMVM40Z**	mm	40	16	in	--	M8	6 28309 21514 9
ZN	VM	**CMVM40PZ**	mm	40	14	in	M16 x1.5	--	6 28309 21513 2
Plug	VM	**CMVMBP8**	mm	--	--	in	M16 x1.5	M8 x1.25	6 28309 23261 0
ZN	VM	**CMVM20Z**	mm	20	14	in	--	M8 x1.25	6 28309 21508 8
ZN	VM	**CMVM20PZ**	mm	20	14	in	M18 x1.5	--	6 28309 21507 1
Plug	VM	**CMVMBP8**	mm	--	--	in	M18 x1.5	M10 x1.5	6 28309 23261 0
ZN	VM	**CMVMM10Z**	mm	20	14	in	--	M10 x1.5	6 28309 21520 0
ZN	VM	**CMVMM10PZ**	mm	20	14	in	M18 x1.5	--	6 28309 21519 4

	ENGINE	PID		L	OD		NPT	UNC	UPC
ZN	VOLVO PENTA	**CM8517479Z**	mm	40	16	in	--	7/16	6 28309 23513 0
ZN	VOLVO PENTA	**CM838929Z (200-250-270)**	mm	30	16	in	--	7/16	6 28309 10128 2
AL	VOLVO PENTA	**CM838929A**	mm	30	16	in	--	7/16	6 28309 12328 4
MG	VOLVO PENTA	**CM838929M**	mm	30	16	in	--	7/16	6 28309 19298 3
ZN	VOLVO PENTA	**CMEZ2SZ**	mm	30	16	in	--	7/16	6 28309 10346 0
ZN	VOLVO PENTA	**CM823661Z**	mm	47	26	in	--	3/8	6 28309 10118 3
AL	VOLVO PENTA	**CM823661A**	mm	47	26	in	--	3/8	6 28309 12327 7
MG	VOLVO PENTA	**CM823661M**	mm	47	26	in	--	3/8	6 28309 12374 1
ZN	VOLVO PENTA	**CMVP16520Z**	mm	20	16.5	in	--	5/16	6 28309 23815 5

	ENGINE	PID		L	OD		NPT	UNC	UPC
ZN	YANMAR	**SGYN068Z (YANMAR 8 - 10 HP)**	mm	55	30	in	--	M8	6 28309 18318 9
ZN	YANMAR	**SGYN069Z**	mm	43	20	in	--	M8	6 28309 18319 6
ZN	YANMAR	**SGYN069TZ**	mm	43	20	in	1/8	--	6 28309 24156 8
ZN	YANMAR	**SGYN224Z**	mm	40	20	in	--	M8	6 28309 18320 2
ZN	YANMAR	**SGYN224TZ**	mm	40	20	in	3/8	--	6 28309 24157 5

*Remember: **Zinc** - Salt water only, **Aluminum** - Salt and Brackish water, **Magnesium** - Fresh water only.*

CERTIFICATE OF REGISTRATION

This is to certify that

Canada Metal (Pacific) Ltd.

7733 Progress Way, Delta, British Columbia V4G1A3 Canada

operates a

Quality Management System

which complies with the requirements of

ISO 9001:2008

for the following scope of registration

The registration covers the Quality Management System for nonferrous alloys / casting fabrication, general CNC / manual machining. Design, assembly and distribution of marine and construction related products.

Certificate No.:	CERT-0094340	Original Certification Date:	June 14, 1999
File No.:	802196	Current Certification Date:	January 28, 2016
Issue Date:	January 28, 2016	Certificate Expiry Date:	September 14, 2018

Heather Mahon
Acting Head of
Policy, Risk and Certification

Certified System

ANAB ACCREDITED ISO/IEC 17021 MANAGEMENT SYSTEMS CERTIFICATION BODY

ISO 9001

Registered by:
SAI Global Certification Services Pty Ltd, 680 George St, Level 37-38, Sydney, NSW, 2000, Australia with **QMI-SAI Canada Limited**, 20 Carlson Court, Suite 200, Toronto, Ontario M9W 7K6 Canada **(SAI GLOBAL).** This registration is subject to the **SAI Global** Terms and Conditions for Certification. While all due care and skill was exercised in carrying out this assessment, **SAI Global** accepts responsibility only for proven negligence. This certificate remains the property of **SAI Global** and must be returned to them upon request.
To verify that this certificate is current, please refer to the **SAI Global** On-Line Certification Register: www.qmi-saiglobal.com/qmi_companies/

SAI GLOBAL
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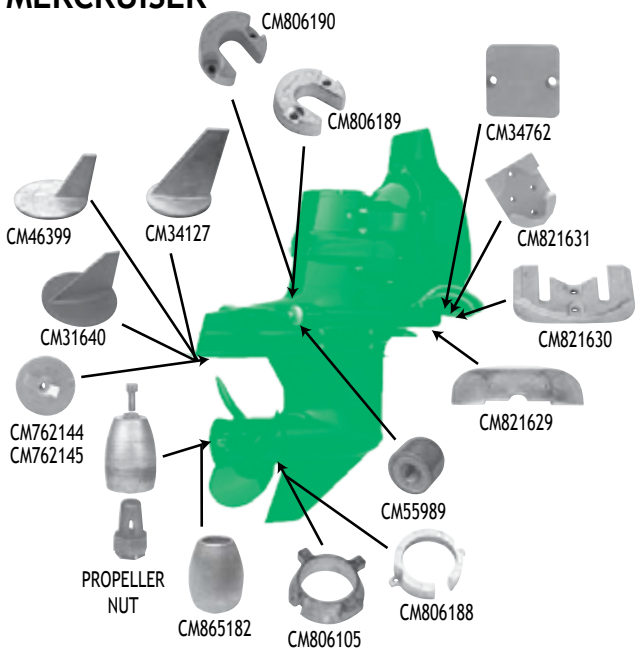
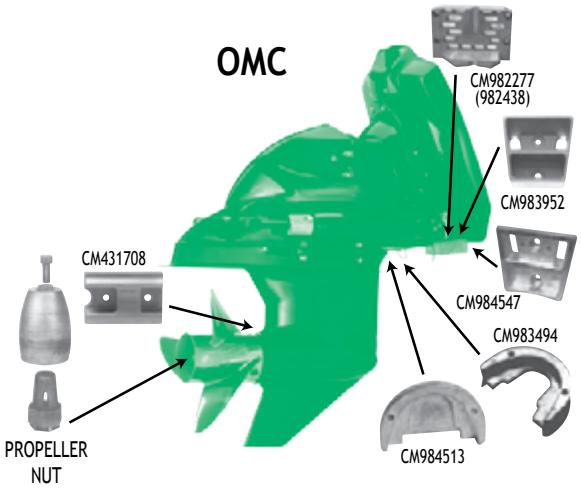
ANODE LOCATION CHART

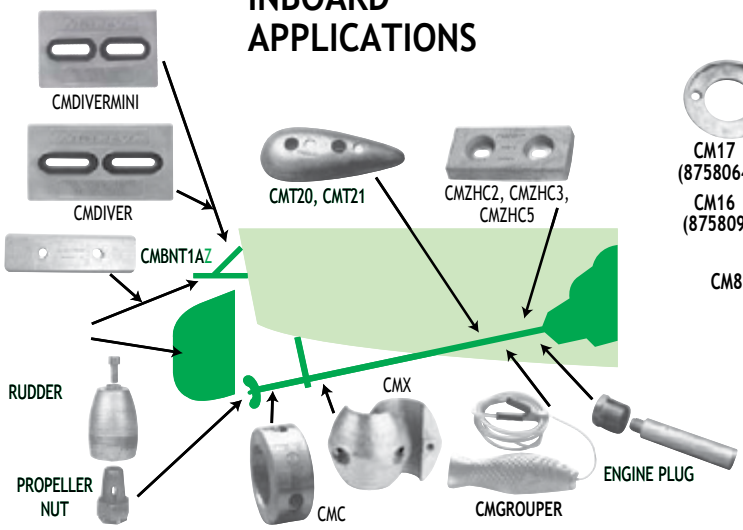
MERCRUISER



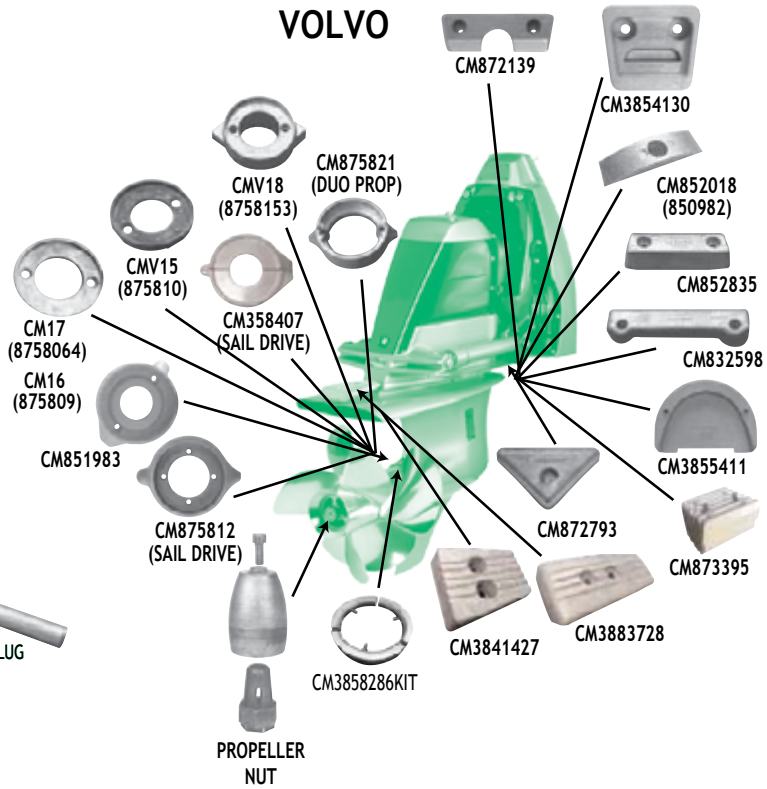
OMC



INBOARD APPLICATIONS



VOLVO



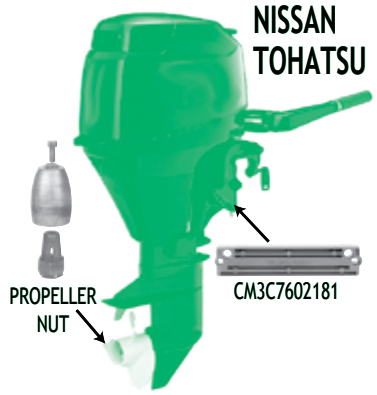
★ Kits available for Mercury & Volvo ★

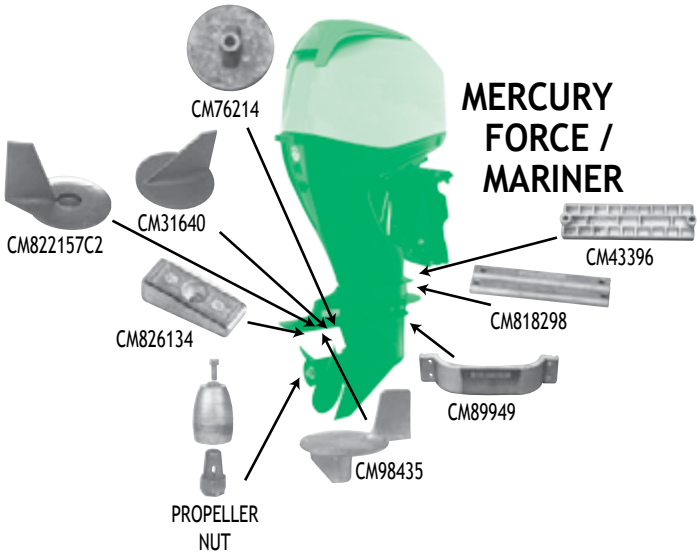
Martyr is a registered trademark of Canada Metal (Pacific) Ltd. Martyr Anodes are manufactured under an ISO-9000 series Quality Assurance Program to original equipment standards and are guaranteed to conform to the latest US-Mil-24779(SH) specification for Aluminum anodes. Check anodes regularly and replace them when they are 70% consumed.

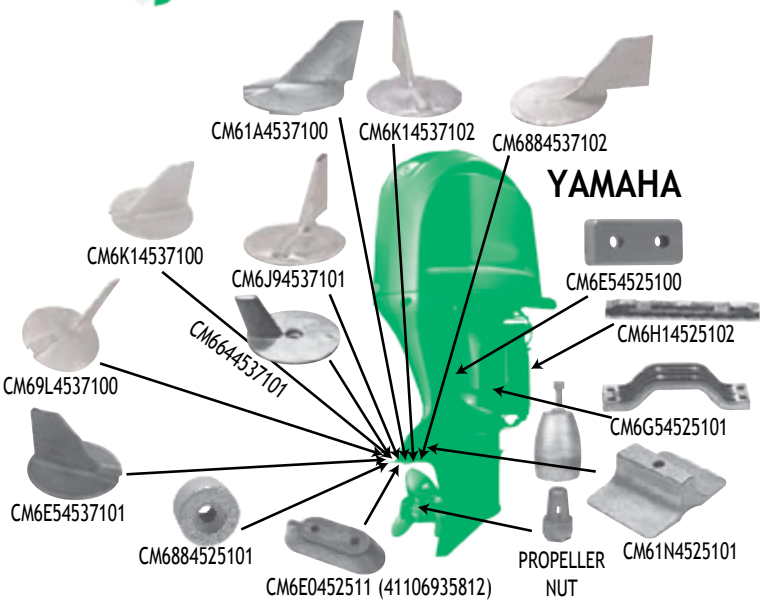
www.martyranodes.com

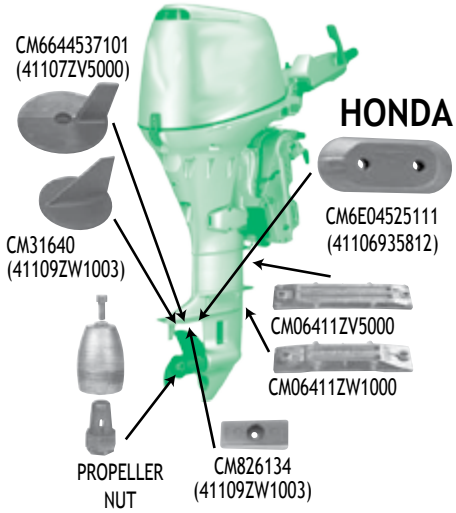
See your dealer for full listing. Please see our website for a cross reference chart.

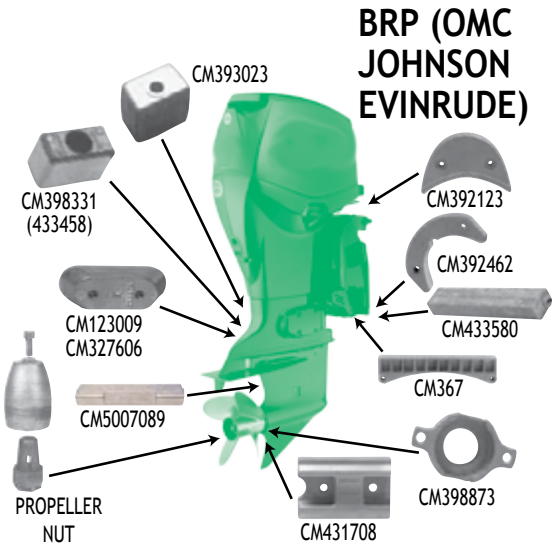
ANODE LOCATION CHART

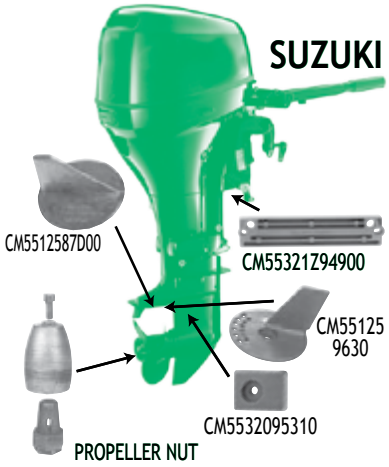












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See your dealer for full listing. Please see our website for a cross reference chart.

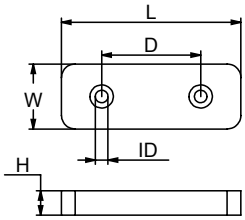
COMMERCIAL

HULL ANODES

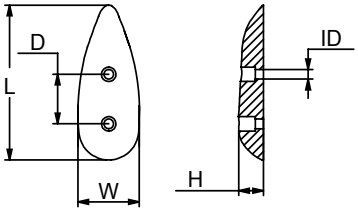
Notes:
1. All weights are nominal gross weight.
2. Inserts and straps are available in either Aluminum or steel.
3. Bolt size is suggested.
4. Contact us for special configuration requirements.
5. Detailed drawings are available. Protective backing available for better performance. Please check for details when ordering.

HULL ANODES

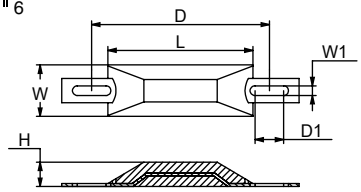
Bolt-on	PID	LB	KG		L	W	H	D	ID	UPC
ZN	CM656934Z	0.35	0.16	mm	83	31	11	46	6	6 28309 11306 3
AL	CM656934A	0.14	0.06	in	3.25	1.2	0.45	1.8	0.23	6 28309 11551 7



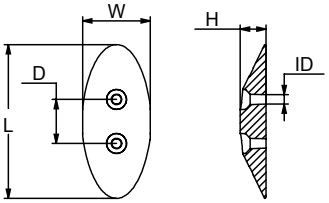
Bolt-on	PID	LB	KG		L	W	H	D	ID	UPC
ZN	CMT20Z	0.38	0.17	mm	86	46	15	33	6	6 28309 10358 3
AL	CMT20A	0.15	0.07							6 28309 12398 7
MG	CMT20M	0.10	0.05	in	3.4	1.8	0.6	1.28	0.25	6 28309 12191 4



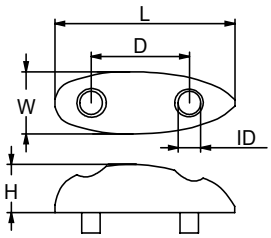
Combo	PID	LB	KG		L	W	W1	H	D	D1	UPC
ZN	CM200Z	0.44	0.20	mm	96	34	6	16	117	19	6 28309 11503 6
				in	3.78	1.33	0.25	0.63	4.6	0.75	



Bolt-on	PID	LB	KG		L	W	H	D	ID	UPC
ZN	CMM24Z	0.65	0.29	mm	111	49	18	32	6	6 28309 10679 9
AL	CMM24A	0.30	0.15	in	4.36	1.92	0.70	1.25	0.25	6 28309 12376 5

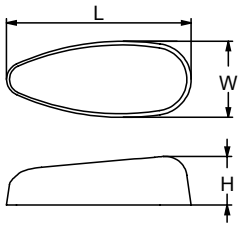


Bolt-on	PID	LB	KG		L	W	H	D	ID	UPC
ZN	CMZ12Z	0.53	0.24	mm	93	32	24	51	7	6 28309 11208 0
AL	CMZ12A	0.22	0.09	in	3.62	1.25	1	2	0.26	6 28309 12074 0

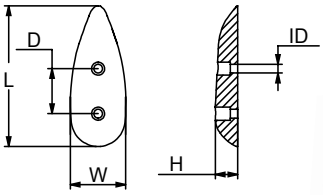


HULL ANODES

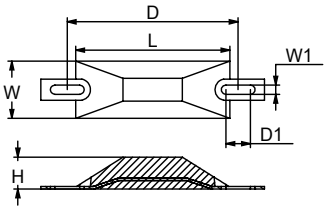
BOLT HOLES CAN BE ADDED ON STRAPS AS REQUIRED



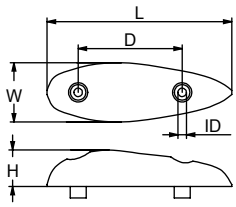
Bolt-on	PID	LB	KG		L	W	H	UPC
ZN	CM335Z	0.71	0.32	mm	85	36	24	6 28309 12204 1
AL	CM335A	0.28	0.13	in	3.35	1.4	0.93	6 28309 12399 4



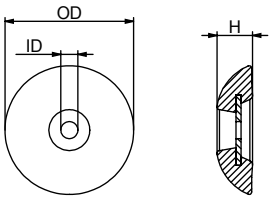
Bolt-on	PID	LB	KG		L	W	H	D	ID	UPC
ZN	CMT21Z	1.00	0.45	mm	129	51	21	41	8	6 28309 10359 0
AL	CMT21A	0.39	0.18	in	5.1	2	0.83	1.62	0.31	6 28309 12396 3
MG	CMT21M	0.30	0.15							6 28309 24385 2



Combo	PID	LB	KG		L	W	W1	H	D	D1	UPC
ZN	CM500Z	1.10	0.50	mm	116	43	7	24	128	19	6 28309 11504 3
				in	4.5	1.68	0.26	1	5	0.75	



Bolt-on	PID	LB	KG		L	W	H	D	ID	UPC
ZN	CMZ13Z	1.50	0.70	mm	145	47	29	83	7	6 28309 11209 7
AL	CMZ13A	0.65	0.30	in	5.75	1.84	1.14	3.25	0.26	6 28309 12071 9



Combo	PID	LB	KG		OD	ID	H	UPC
ZN	CMZD56Z	1.90	0.86	mm	102	14	28	6 28309 12610 0
				in	4	0.53	1.1	

BOLT-ON

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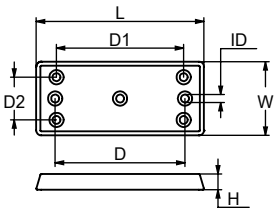
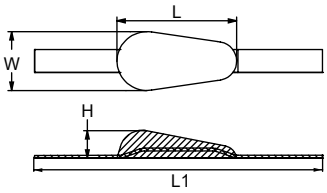
HULL ANODES

Bolt-on	PID	LB	KG		L	W	H	D	D1	D2	ID	UPC
ZN	CMM30Z	1.90	0.86	mm	152	68	14	121	118	40	6	6 28309 10681 2
AL	CMM30A	0.74	0.34	in	6	2.67	0.56	4.75	4.62	1.58	0.25	6 28309 12378 9

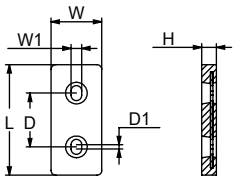
WELD-ON



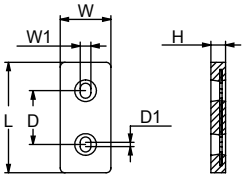
Weld-on	PID	LB	KG		L	W	H	UPC
ZN	CM35GZ	2.00	0.90	mm	127	61	30	6 28309 12151 8
AL	CM35GA	0.80	0.40	in	5	2.4	1.16	6 28309 12365 9



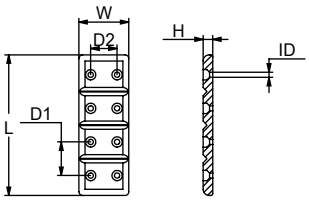
Bolt-on	PID	LB	KG		L	W	W1	H	D	D1	UPC
ZN	CMZHC3AZ	2.00	0.90	mm	159	70	14	19	65	15	6 28309 11226 4
AL	CMZHC3AA	0.78	0.35	in	6.25	2.75	0.54	0.75	2.57	0.57	6 28309 11402 2



Bolt-on	PID	LB	KG		L	W	W1	H	D	D1	UPC
ZN	CMZHC2AZ	2.07	0.94	mm	146	67	13	19	71	6	6 28309 11225 7
AL	CMZHC2AA	0.80	0.37	in	5.75	2.65	0.5	0.75	2.78	0.25	6 28309 11401 5



Bolt-on	PID	LB	KG		L	W	H	D1	D2	ID	UPC
ZN	CMM40Z	2.08	0.95	mm	186	66	13	45	35	7	6 28309 10682 9
AL	CMM40A	0.81	0.37	in	7.3	2.6	0.5	1.75	1.37	0.28	6 28309 12379 6



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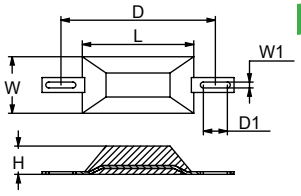
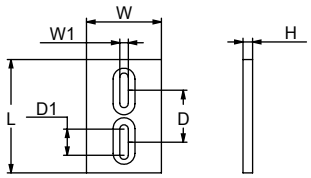
HULL ANODES

BOLT HOLES CAN BE ADDED ON STRAPS AS REQUIRED

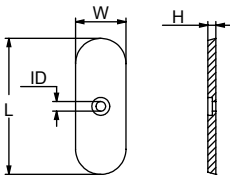


Combo	PID	LB	KG		L	W	W1	H	D	D1	UPC
ZN	CM1000Z	2.20	1.00	mm	118	60	6	30	162	25	6 28309 11502 9
				in	4.12	2.25	0.25	1.18	6.38	1	

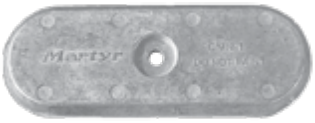
Bolt-on	PID	LB	KG		L	W	W1	H	D	D1	UPC
ZN	CMDIVERMINIZ	2.25	1.02	mm	150	99	11	13	69	35	6 28309 11338 4
AL	CMDIVERMINIA	0.87	0.40								6 28309 12375 8
MG	CMDIVERMINIM	0.68	0.31	in	5.9	3.9	0.44	0.5	2.7	1.36	6 28309 11506 7

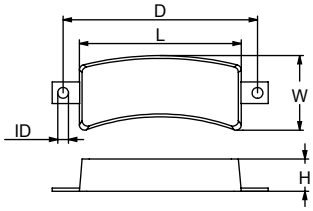


See Pg 63 for a heavier version:
Part ID: CMDIVERMINIHZ

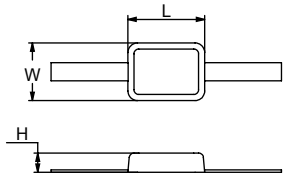


Bolt-on	PID	LB	KG		L	W	H	ID	UPC
ZN	CMN1Z	2.60	1.19	mm	216	80	13	10	6 28309 12348 2
AL	CMN1A	1.01	0.46	in	8.5	3.15	0.5	0.41	6 28309 12347 5





Combo	PID	LB	KG		OD	ID	H	D	ID	UPC
ZN	CMH18BZ	2.90	1.32	mm	150	69	30	180	10	6 28309 24467 5
				in	6	2.75	1.19	7	0.37	



Weld-on	PID	LB	KG		L	W	H	UPC
ZN	CM2431GZ	3.08	1.40	mm	102	76	25	6 28309 12143 3
AL	CM2431GA	1.30	0.60	in	4	3	1	6 28309 12362 8

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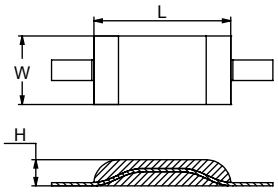
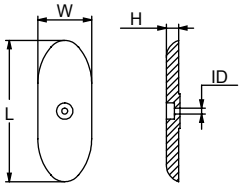
HULL ANODES

BOLT HOLES CAN BE ADDED ON STRAPS AS REQUIRED

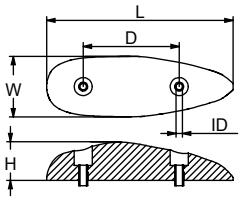
Weld-on	PID	LB	KG		L	W	H	UPC
ZN	CMZ06Z	3.08	1.40	mm	127	64	25	6 28309 11205 9
AL	CMZ06A	1.30	0.60	in	5	2.5	1	6 28309 11390 2



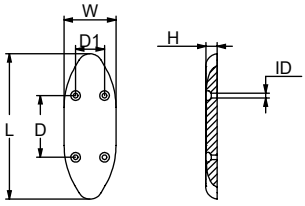
Bolt-on	PID	LB	KG		L	W	H	ID	UPC
ZN	CMMZ404Z	3.42	1.55	mm	224	86	19	10	6 28309 11339 1
AL	CMMZ404A	1.33	0.60	in	8.8	3.37	0.75	0.37	6 28309 12380 2



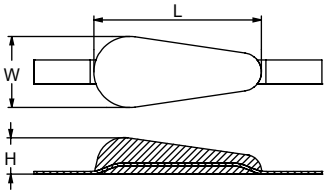
Bolt-on	PID	LB	KG		L	W	H	D	ID	UPC
ZN	CMZ14Z	3.65	1.66	mm	197	64	38	101	7	6 28309 11210 3
AL	CMZ14A	1.50	0.68	in	7.75	2.5	1.5	4	0.26	6 28309 12080 1



Bolt-on	PID	LB	KG		L	W	H	D	D1	ID	UPC
ZN	CMM25Z	3.92	1.78	mm	231	83	18	98	46	7	6 28309 10680 5
AL	CMM25A	1.52	0.69	in	9.1	3.25	0.72	3.86	1.81	0.29	6 28309 12377 2



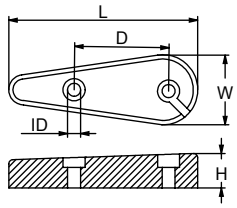
Weld-on	PID	LB	KG		L	W	H	UPC
ZN	CM37GZ	4.00	1.80	mm	178	76	38	6 28309 12150 1
AL	CM37GA	1.70	0.80	in	7	3	1.5	6 28309 12361 1



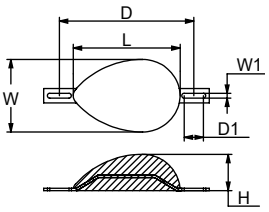
*Remember: **Zinc** - Salt water only, **Aluminum** - Salt and Brackish water, **Magnesium** - Fresh water only.*

HULL ANODES

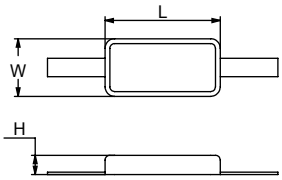
BOLT HOLES CAN BE ADDED ON STRAPS AS REQUIRED



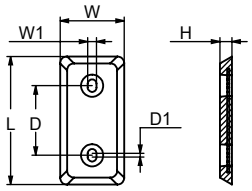
Bolt-on	PID	LB	KG		L	W	H	D	ID	UPC
ZN	CMARCHNZ	4.00	1.80	mm	175	65	32	88	12	6 28309 12537 0
AL	CMARCHNA	1.70	0.80	in	6.9	2.5	1.3	3.44	0.47	6 28309 12538 7



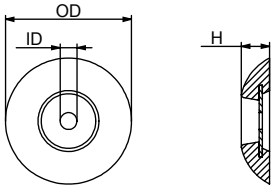
Combo	PID	LB	KG		L	W	W1	H	D	D1	UPC
ZN	CM2000Z	4.40	2.00	mm	141	96	6	48	184	19	6 28309 11932 4
				in	5.55	3.78	0.25	1.9	7.24	0.75	



Weld-on	PID	LB	KG		L	W	H	UPC
ZN	CM2631GZ	4.50	2.00	mm	152	76	25	6 28309 12144 0
AL	CM2631GA	1.90	0.90	in	6	3	1	6 28309 12364 2



Bolt-on	PID	LB	KG		L	W	W1	H	D	D1	UPC
ZN	CMZHC5AZ	4.50	2.00	mm	203	102	14	19	110	6	6 28309 11228 8
AL	CMZHC5AA	1.75	0.79	in	8	4	0.55	0.76	4.35	0.23	6 28309 12312 3



Bolt-on	PID	LB	KG		OD	ID	H	UPC
ZN	CMZD58Z	4.84	2.20	mm	150	20	34	6 28309 12639 1
AL	CMZD58A	1.98	0.90	in	5.9	0.79	1.34	6 28309 24258 9

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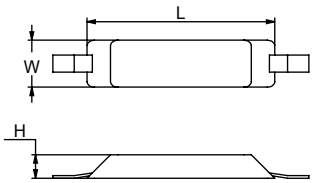
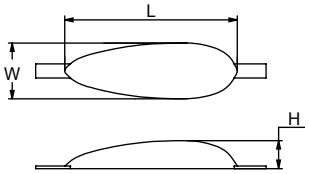
HULL ANODES

BOLT HOLES CAN BE ADDED ON STRAPS AS REQUIRED

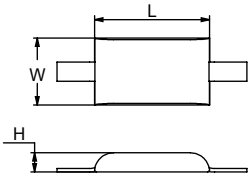
Weld-on	PID	LB	KG		L	W	H	UPC
ZN	CMZC5Z	4.85	2.20	mm	224	56	28	6 28309 20141 8
AL	CMZC5A	1.98	0.90	in	8.8	2.2	1.1	6 28309 11399 5



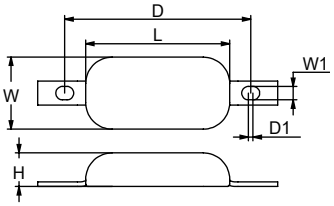
Weld-on	PID	LB	KG		L	W	H	UPC
ZN	CMZTSZ	5.00	2.27	mm	229	76	38	6 28309 11285 1
AL	CMZTSA	2.10	0.95	in	9	3	1.5	6 28309 11406 0



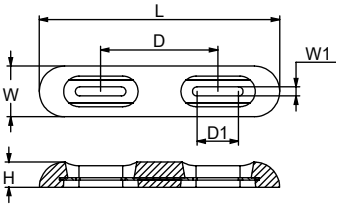
Weld-on	PID	LB	KG		L	W	H	UPC
ZN	CMZ04Z	5.07	2.30	mm	152	89	25	6 28309 11203 5
AL	CMZ04A	2.10	1.00	in	6	3.5	1	6 28309 11388 9



Combo	PID	LB	KG		L	W	W1	H	D	D1	UPC
ZN	CMHT1Z	5.10	2.30	mm	152	76	14	36	197	5	6 28309 11952 2
AL	CMHT1A	2.30	1.04	in	6	3	0.56	1.4	7.75	0.19	6 28309 12541 7



Bolt-on	PID	LB	KG		L	W	W1	H	D	D1	UPC
ZN	CMZD77EUROZ	5.29	2.40	mm	318	67	12	34	155	55	6 28309 12607 0
				in	12.5	2.6	0.47	1.3	6.1	2.17	



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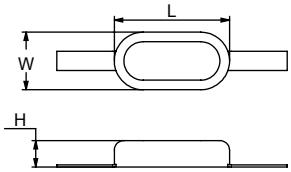
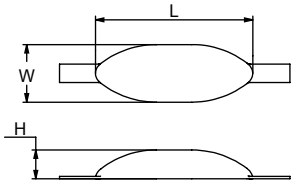
HULL ANODES

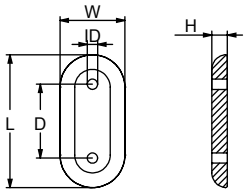
BOLT HOLES CAN BE ADDED ON STRAPS AS REQUIRED



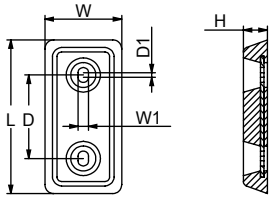
Weld-on	PID	LB	KG		L	W	H	UPC
ZN	CM273125GZ	5.50	2.50	mm	152	76	35	6 28309 12146 4
AL	CM273125GA	2.20	1.00	in	6	3	1.38	6 28309 12359 8



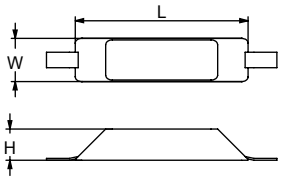
Weld-on	PID	LB	KG		L	W	H	UPC
ZN	CM39315GZ	5.50	2.50	mm	208	76	38	6 28309 12152 5
AL	CM39315GA	2.20	1.00	in	8.2	3	1.5	6 28309 12366 6



Bolt-on	PID	LB	KG		L	W	H	D	ID	UPC
ZN	CMMZC406Z	6.75	3.07	mm	229	112	25	127	13	6 28309 11340 7
AL	CMMZC406A	2.62	1.19	in	9	4.4	1	5	0.5	6 28309 12381 9
MG	CMMZC406M	0.55	0.25							6 28309 17620 4



Bolt-on	PID	LB	KG		L	W	W1	H	D	D1	UPC
ZN	CMZHC06GBZ	6.80	3.10	mm	203	101	14	32	111	6	6 28309 16617 5
AL	CMZHC06GBA	2.90	1.30	in	8	4	0.55	1.25	4.35	0.23	6 28309 24264 0



Weld-on	PID	LB	KG		L	W	H	UPC
ZN	CMZC7Z	7.00	3.15	mm	228	57	41	6 28309 11223 3
AL	CMZC7A	3.00	1.35	in	9	2.25	1.62	6 28309 11400 8

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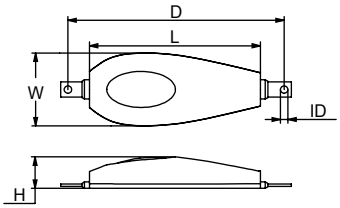
HULL ANODES

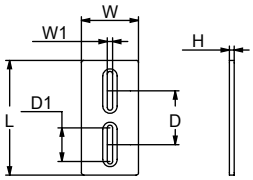
BOLT HOLES CAN BE ADDED ON STRAPS AS REQUIRED

Combo	PID	LB	KG		L	W	H	D	ID	UPC
MG	CMMGJRGM	2.00	0.91	mm	226	96	40	286	10	6 28309 15549 0
				in	8.9	3.75	1.5	11.25	0.37	



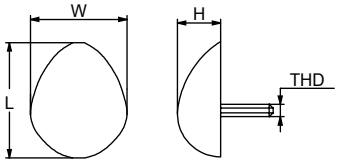
With Plastisol Coating

Bolt-on	PID	LB	KG		L	W	W1	H	D	D1	UPC
ZN	CMDIVERZ	8.00	3.60	mm	305	152	13	25	140	89	6 28309 11365 0
AL	CMDIVERA	3.25	1.48								6 28309 10183 1
MG	CMDIVERM	2.50	1.14	in	12	6	0.5	1	5.5	3.5	6 28309 11507 4

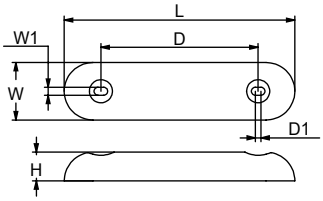


Aluminum version now available in packaged kit with all hardware included.
Part ID: CMDIVERBOND (Pg 62)
See Pg 63 for a heavier version:
Part ID: CMDIVERH

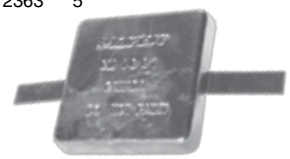
Bolt-on	PID	LB	KG		L	W	H	THD	UPC
ZN	CM36BSSZ	8.75	3.97	mm	152	127	57	3/8-16	6 28309 12153 2
AL	CM36BSSA	3.50	1.60	in	6	5	2.25	NC	6 28309 12402 1

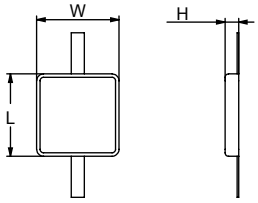


Bolt-on	PID	LB	KG		L	W	W1	H	D	D1	UPC
ZN	CMZD78BZ	9.00	4.00	mm	305	76	10	38	208	8	6 28309 12609 4
				in	12	3	0.39	1.5	8.19	0.29	



Weld-on	PID	LB	KG		L	W	H	UPC
ZN	CM1661GZ	9.00	4.00	mm	152	152	25	6 28309 12145 7
AL	CM1661GA	1.90	0.90	in	6	6	1	6 28309 12363 5





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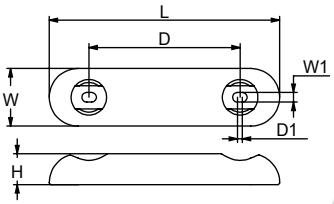
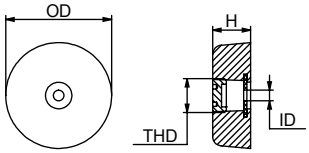
HULL ANODES

BOLT HOLES CAN BE ADDED ON STRAPS AS REQUIRED

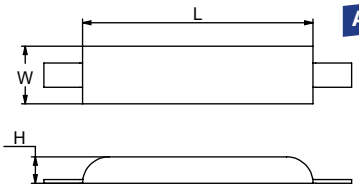


Bolt-on	PID	LB	KG		L	W	W1	H	D	D1	UPC
ZN	CMZ03BSZ	9.00	4.0	mm	305	76	14	41	200	5	6 28309 12733 6
AL	CM0Z3BSA	3.96	1.8	in	12	3	0.56	1.6	7.88	0.16	6 28309 12857 9

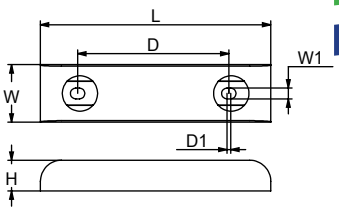
Bolt-on	PID	LB	KG		OD	ID	H	THD	UPC
ZN	CMH06Z (AZIMUT)	9.24	4.20	mm	135	16	50	M45 x 2	6 28309 11490 9
AL	CMH06A (AZIMUT)	3.63	1.65	in	5.3	0.63	2		6 28309 12475 5



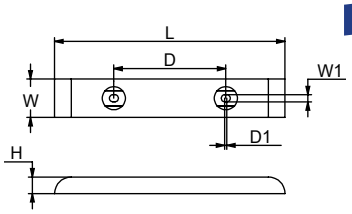
Weld-on	PID	LB	KG		L	W	H	UPC
ZN	CMZ03Z	10.30	4.68	mm	305	76	35	6 28309 11198 4
AL	CMZ03A	4.85	2.20	in	12	3	1.37	6 28309 11385 8



Bolt-on	PID	LB	KG		L	W	W1	H	D	D1	UPC
ZN	CMZ03BZ	13.70	6.22	mm	305	76	14	41	200	5	6 28309 11200 4
AL	CMZ03BA	5.20	2.36	in	12	3	0.56	1.6	7.88	0.19	6 28309 11387 2



Bolt-on	PID	LB	KG		L	W	W1	H	D	D1	UPC
ZN	CMZ15BZ	15.20	6.90	mm	457	76	16	33	235	6	6 28309 11211 0
AL	CMZ15BA	6.33	2.88	in	18	3	0.62	1.3	9.25	0.25	6 28309 12017 7



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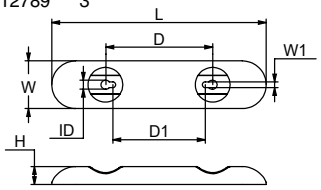
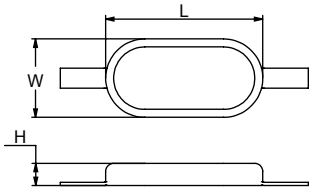
HULL ANODES

BOLT HOLES CAN BE ADDED ON STRAPS AS REQUIRED

Bolt-on	PID	LB	KG		L	W	W1	H	D	D1	ID	UPC
ZN	CMZD72BMZ	15.41	7.00	mm	457	102	12	38	229	203	19	6 28309 12605 6
AL	CMZD72BMA	6.42	2.90	in	18	4	0.48	1.5	9	8	0.75	6 28309 12789 3



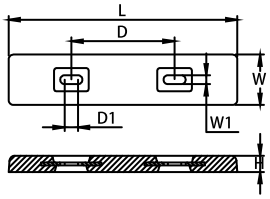
Weld-on	PID	LB	KG		L	W	H	UPC
ZN	CM810SZ	15.86	7.20	mm	248	125	35	6 28309 12147 1
AL	CM810SA	6.60	3.00	in	9.75	4.9	1.37	6 28309 12401 4



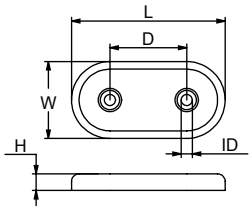
	PID	LB	KG		L	W	H	D	D1	W1	UPC
ZN	CMZL18BGZ	18.56	8.42	mm	454	100	32	204.8	26.2	17.5	6 28309 25520 6
AL	CMZL18BGA	8.09	3.67	in	17.87	3.93	1.25	8.06	1.03	0.69	6 28309 25525 1
MG	CMZL18BGM	5.72	2.59								6 28309 25530 5

NEW

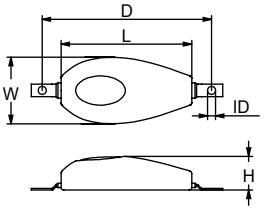
Bolt-On Hull Anode



Bolt-on	PID	LB	KG		L	W	H	D	ID	UPC
ZN	CMH20BZ	18.90	8.50	mm	305	152	48	152	22	6 28309 24131 5
AL	CMH20BA	8.00	3.60	in	12	6	1.3	6	0.87	6 28309 24209 1



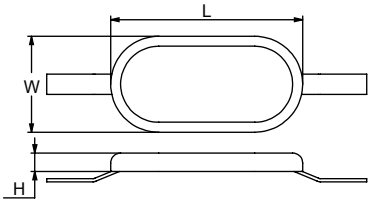
Combo	PID	LB	KG		L	W	H	D	ID	UPC
MG	CMMG5GM	5.04	2.29	mm	259	132	66	336	16	6 28309 15548 3
				in	10.2	5.2	2.6	13.2	0.63	



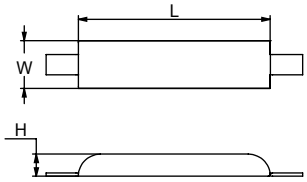
*Remember: **Zinc** - Salt water only, **Aluminum** - Salt and Brackish water, **Magnesium** - Fresh water only.*

HULL ANODES

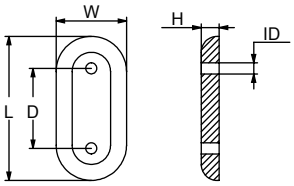
BOLT HOLES CAN BE ADDED ON STRAPS AS REQUIRED



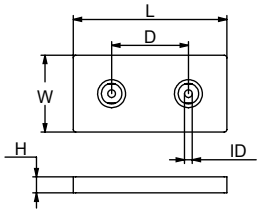
Weld-on	PID	LB	KG		L	W	H	UPC
ZN	CM812125Z	19.50	9.00	mm	305	152	29	6 28309 12491 5
AL	CM812125A	7.90	3.60	in	12	6	1.15	6 28309 12335 2



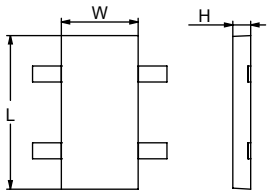
Weld-on	PID	LB	KG		L	W	H	UPC
ZN	CMZ19Z	22.00	10.00	mm	635	76	31	6 28309 11212 7
AL	CMZ19A	10.00	4.60	in	25	3	1.2	6 28309 11395 7



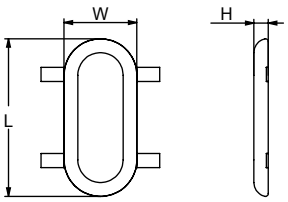
Bolt-on	PID	LB	KG		L	W	H	D	ID	UPC
ZN	CMZ24BSZ	23.00	10.50	mm	356	159	32	127	13	6 28309 12482 3
AL	CMZ24BSA	8.94	4.06	in	14	6.25	1.25	5	0.5	6 28309 12562 2



Bolt-on	PID	LB	KG		L	W	H	D	ID	UPC
ZN	CMZ01BSZ/ZHC23	23.00	10.5	mm	305	152	32	152	16	6 28309 11193 9
AL	CMZ01BSA/ZHC23	10.60	4.8	in	12	6	1.25	6	0.62	6 28309 11382 7



Weld-on	PID	LB	KG		L	W	H	UPC
ZN	CMZ02Z/CMZHS23Z	23.50	10.86	mm	305	152	35	6 28309 11195 3
AL	CMZ02A/CMZHS23A	10.55	4.79	in	12	6	1.38	6 28309 11383 4



Weld-on	PID	LB	KG		L	W	H	UPC
ZN	CMZ22Z	23.50	10.86	mm	356	165	33	6 28309 11214 1
AL	CMZ22A	11.10	5.19	in	14	6.5	1.3	6 28309 11396 4

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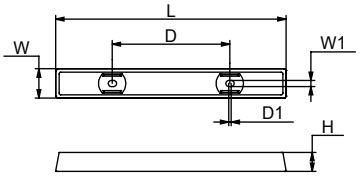
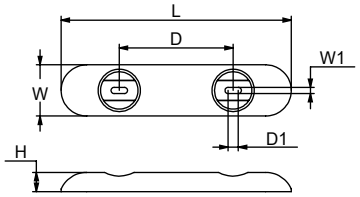
HULL ANODES

BOLT HOLES CAN BE ADDED ON STRAPS AS REQUIRED

Bolt-on	PID	LB	KG		L	W	W1	H	D	D1	UPC
ZN	CMP5B2BZ	25.00	11.40	mm	610	79	16	51	311	6	6 28309 11453 4
AL	CMP5B2BA	11.80	5.36	in	24	3.1	0.63	2	12.25	0.25	6 28309 11810 5

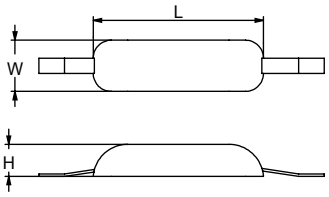


Bolt-on	PID	LB	KG		L	W	W1	H	D	D1	UPC
ZN	CMZD72BZ	25.80	11.70	mm	455	102	19	56	226	9	6 28309 12625 4
				in	17.9	4	0.73	2.2	8.9	0.35	

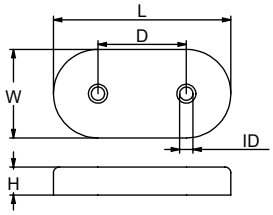


Weld-on	PID	LB	KG		L	W	H	UPC
ZN	CMZ26Z	26.00	11.79	mm	338	109	57	6 28309 11944 7
AL	CMZ26A	11.67	5.30	in	13.3	4.3	2.25	6 28309 11398 8

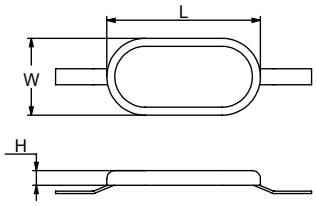
**** Available in either steel or aluminum weld-on straps.****



Bolt-on	PID	LB	KG		L	W	H	D	ID	UPC
ZN	CMH19BZ	26.70	12.00	mm	305	152	48	152	22	6 28309 24130 8
				in	12	6	1.9	6	0.87	



Weld-on	PID	LB	KG		L	W	H	UPC
ZN	CM812Z	27.00	12.50	mm	305	152	43	6 28309 12148 8
AL	CM812A	11.45	5.20	in	12	6	1.7	6 28309 18129 1



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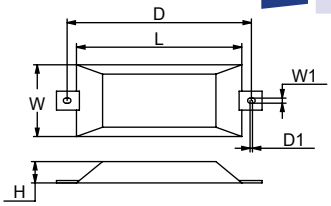
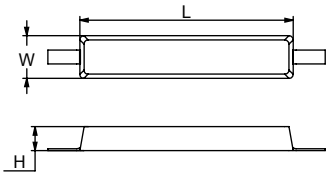
HULL ANODES

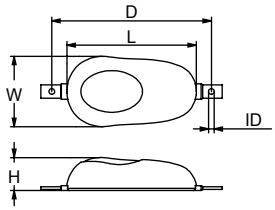
BOLT HOLES CAN BE ADDED ON STRAPS AS REQUIRED

Combo	PID	LB	KG		L	W	W1	H	D	D1	UPC
ZN	CMM120BZ	30.0	13.5	mm	350	152	18	45	390	4	6 28309 24136 0
AL	CMM120BA	12.3	5.6	in	13.75	6	0.71	1.75	15.37	0.5	6 28309 24223 7



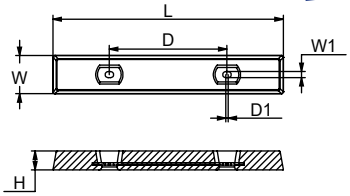


Weld-on	PID	LB	KG		L	W	H	UPC
ZN	CMMA2204Z	36.50	16.50	mm	508	101	57	6 28309 11493 0
AL	CMMA2204A	16.00	7.30	in	20	4	2.25	6 28309 11409 1

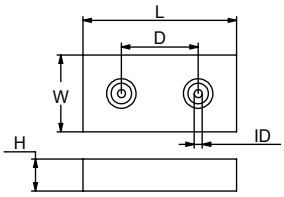


Combo	PID	LB	KG		L	W	H	D	ID	UPC
MG	CMMG10GM	9.97	4.53	mm	308	168	78	380	14	6 28309 15546 9
				in	12	6.6	3.1	15	0.53	

With Plastisol Coating



Bolt-on	PID	LB	KG		L	W	W1	H	D	ID	UPC
ZN	CMP7B2BSZ /CMZHC50Z	45.0	20.5	mm	609	102	16	51	311	6	6 28309 11454 1
AL	CMP7B2BSA /CMZHC50A	19.8	8.9	in	24	4	0.62	2	12.25	0.25	6 28309 11811 2



Bolt-on	PID	LB	KG		L	W	H	D	ID	UPC
ZN	CMZHC47Z /CMZHC42Z	45.00	20.50	mm	305	152	64	152	16	6 28309 11227 1
AL	CMZHC47A /CMZHC42A	18.10	8.23	in	12	6	2.5	6	0.62	6 28309 12581 3

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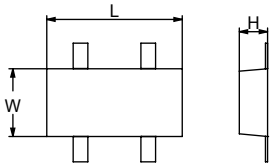
HULL ANODES

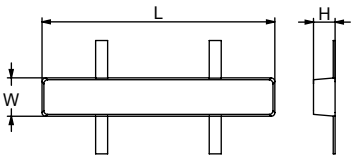
BOLT HOLES CAN BE ADDED ON STRAPS AS REQUIRED

Weld-on	PID	LB	KG		L	W	H	UPC
ZN	CMZHS47Z/CMZHS42Z	45.00	20.50	mm	305	152	64	6 28309 11229 5
AL	CMZHS47A/CMZHS42A	18.10	8.23	in	12	6	2.5	6 28309 11403 9

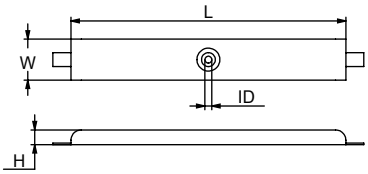


Weld-on	PID	LB	KG		L	W	H	UPC
ZN	CMMA2244LZ/CMZHS50Z	47.0	21.0	mm	616	101	57	6 28309 13015 2
AL	CMMA2244LA/CMZHS50A	19.7	8.75	in	24.25	4	2.25	6 28309 12509 7

Weld-on	PID	LB	KG		L	W	H	UPC
ZN	CMMA2244SZ	41.00	21.00	mm	609	101	50	6 28309 11806 8
AL	CMMA2244SA	19.70	8.75	in	24	4	2	6 28309 11410 7

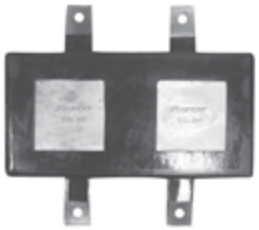


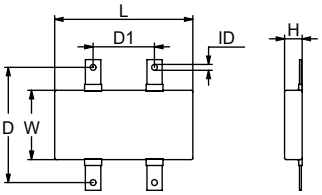
Combo	PID	LB	KG		L	W	H	ID	UPC
ZN	CM260SZ	60.00	27.20	mm	800	120	43	18	6 28309 24098 1
AL	CM260SA	25.80	11.60	in	31.5	4.75	1.62	0.75	6 28309 24163 6



Combo	PID	LB	KG		L	W	H	D	D1	ID	UPC
MG	CMMG24GM	25.90	11.76	mm	457	229	58	381	203	19	6 28309 16592 5
				in	18	9	2.25	15	8	0.75	

With Plastisol Coating





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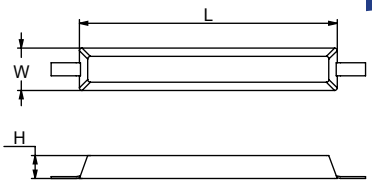
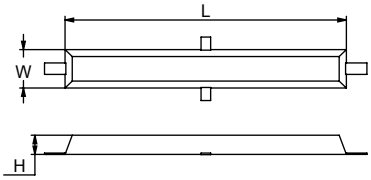
HULL ANODES

BOLT HOLES CAN BE ADDED ON STRAPS AS REQUIRED

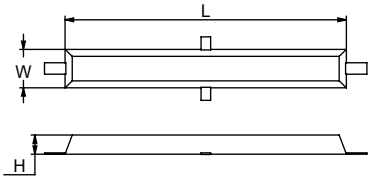
Weld-on	PID	LB	KG		L	W	H	UPC
ZN	CMMA3305SZ	86.50	39.30	mm	745	119	66	6 28309 12056 6
AL	CMMA3305SA	32.10	14.65	in	29.3	4.7	2.6	6 28309 12862 3



Weld-on	PID	LB	KG		L	W	H	UPC
ZN	CMMA3365CSZ	103.00	46.80	mm	930	127	64	6 28309 11945 4
AL	CMMA3365CSA	38.30	17.40	in	36.6	5	2.5	6 28309 11414 5



Weld-on	PID	LB	KG		L	W	H	UPC
ZN	CMMA4545CSZ	264.00	120.00	mm	1379	127	109	6 28309 12548 6
AL	CMMA4545CSA	98.00	44.50	in	54.3	5	4.3	6 28309 12547 9



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BALLAST TANK ANODES

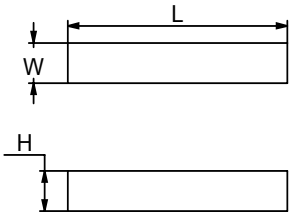
	PID	LB	KG		L	W	H	UPC
ZN	CMMA2602SZ	55.00	25.00	mm	1524	50	50	6 28309 12093 1
AL	CMMA2602SA	25.00	11.00	in	60	2	2	6 28309 12049 8
ZN	CMMA3602SZ	85.00	38.50	mm	1524	64	76	6 28309 24470 5
AL	CMMA3602SA	35.00	16.00	in	60	2.5	3	6 28309 24581 8
ZN	CMMA31003Z	280.00	127.00	mm	2540	89	83	6 28309 12544 8
AL	CMMA31003A	115.00	52.00	in	100	3.5	3.25	6 28309 12543 1
ZN	CMMA41004Z	335.00	152.00	mm	2540	102	95	6 28309 12546 2
AL	CMMA41004A	140.00	63.50	in	100	4	3.75	6 28309 12141 9

Available in any length & weight up to the maximum size shown. 2602S & 3602S use 0.5"rod, 31003 uses 0.75"rod.

CABLE ANODES

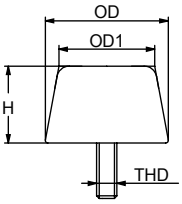
	PID	LB	KG		L	W	H	UPC
ZN	CMTYPE3Z	551.00	250.00	mm	1120	200	200	6 28309 24150 6
AL	CMTYPE3A	96.00	211.20	in	44	7.87	7.87	6 28309 24255 8

Custom cable anodes available upon request. Please contact for details. Cable diameter available in 1/2", 3/8", 5/8", and 5/16".

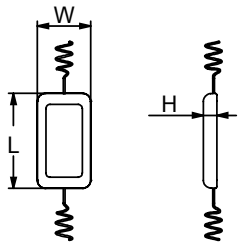


CONDENSER ANODES

	PID	LB	KG		OD	OD1	H	THD	UPC
ZN	CMC6C50BZ	0.73	0.33	mm	50	38	30	5/16 -24 UNC	6 28309 24119 3
AL	CMC6C50BA	0.29	0.13	in	1.97	1.5	1.18		6 28309 24195 7
ZN	CMC6C75BZ	1.76	0.80	mm	75	62	30	5/16 -24 UNC	6 28309 24120 9
AL	CMC6C75BA	0.69	0.31	in	2.95	2.42	1.18		6 28309 24196 4

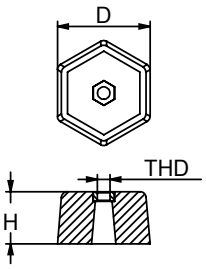


*Remember: **Zinc** - Salt water only, **Aluminum** - Salt and Brackish water, **Magnesium** - Fresh water only.*



CRAB TRAP ANODES

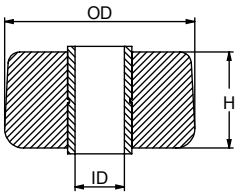
	PID	LB	KG		L	W	H	UPC
ZN	CMZCT2WZ	1.70	0.75	mm	177	25	19	6 28309 11224 0
AL	CMZCT2WA	0.70	0.32	in	7	1	0.75	6 28309 12564 6



	PID	LB	KG		L	W	THD	UPC
ZN	CMCTHBZ	2.73	1.24	mm	76	43	1/2-13 UNC	6 28309 13001 5
AL	CMCTHBA	1.10	0.50	in	3	1.62		6 28309 12725 1

HEAT EXCHANGER ANODES

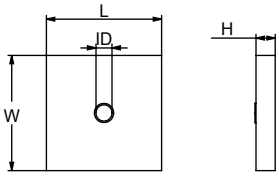
CMH2B2 CMH2B3 CMH2B4 CMH2B5 CMH2B6 CMH2B9 CMH2B11



Available in two insert size options.

Please specify hole size: ⅝" to fit ½" bolt or ½" to fit ⅜" bolt

	PID	LB	KG		OD	H	UPC
ZN	CMH2B2Z	0.80	0.35	mm	50	25	6 28309 24132 2
AL	CMH2B2A	0.30	0.15	in	2	1	6 28309 24210 7
ZN	CMH2B3Z	2.10	0.95	mm	76	25	6 28309 24133 9
AL	CMH2B3A	0.70	0.30	in	3	1	6 28309 24211 4
ZN	CMH2B4Z	3.20	1.45	mm	101	25	6 28309 24134 6
AL	CMH2B4A	1.30	0.60	in	4	1	6 28309 24212 1
ZN	CMH2B5Z	5.60	2.55	mm	127	25	6 28309 12012 2
AL	CMH2B5A	2.00	0.90	in	5	1	6 28309 12859 3
ZN	CMH2B6Z	7.10	3.20	mm	152	25	6 28309 24469 9
AL	CMH2B6A	3.00	1.35	in	6	1	6 28309 11954 6
AL	CMH2B9A	6.70	3.05	in	9	1	6 28309 12540 0
ZN	CMH2B11Z	24.00	10.90	mm	279	25	6 28309 24468 2
AL	CMH2B11A	10.10	4.60	in	11	1	6 28309 24578 8



	PID	LB	KG		L	W	H	UPC
ZN	CMH1B6GZ	9.00	4.10	mm	152	152	25	28309 12619 3
AL	CMH1B6GA	3.80	1.70	in	6	6	1	28309 11930 0

Available in two insert size options. Please specify hole size: ⅝" to fit ½" bolt or ½" to fit ⅜"bolt

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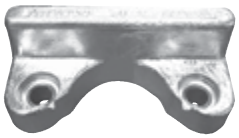
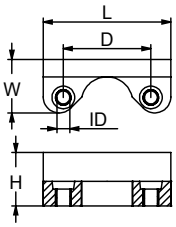
OLYMPIC™ DRIVE ANODES



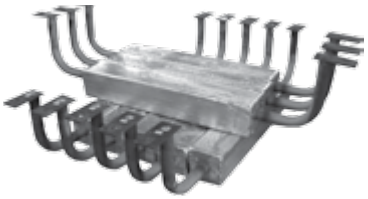
Bolt-on	PID	LB	KG		L	W	H	D	ID	UPC
ZN	CMOLYZ	4.50	2.05	mm	158	66	66	108	16	6 28309 12014 6
AL	CMOLYA	2.11	0.96	in	6.2	2.6	2.6	4.25	0.62	6 28309 24224 4
ZN	CMOLY1HZ	6.30	2.86	mm	158	79	66	108	16	6 28309 10764 2
AL	CMOLY1HA	2.65	1.20	in	6.2	3.1	2.6	4.25	0.62	6 28309 10763 5

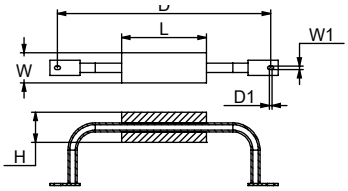


PLATFORM/STANDOFF ANODES

	PID	LB	KG		L	W	W1	H	D	D1	UPC
AL	TYPE1	211.00	96.00	mm	1120	200	22	200	1970	18	6 28309 24158 2
				in	44	7.87	0.87	7.87	77.6	0.71	
AL	TYPE2	105.60	48.00	mm	560	200	22	200	1410	18	6 28309 24159 9
				in	22	7.87	0.87	7.87	77.6	0.71	

Please enquire about custom sizes.





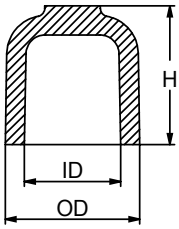
HEATER TREATER ANODES

	PID	LB	KG		L	OD	THD	UPC
ZN	CMHT321Z	39.00	17.70	mm	541	76	5/8-18 UNF	6 28309 11951 5
AL	CMHT321A	16.50	7.50	in	21.5	3		6 28309 12530 1
ZN	CMHT330Z	56.00	25.40	mm	775	76	3/4-10 UNC	6 28309 12848 7
AL	CMHT330A	23.50	10.70	in	30	3		6 28309 11805 1

Type 321 has male 5/8 NF thread on one end and female 5/8 NF thread on the other end. Type 330 has ¾ NC female thread at both ends. Different length of rods are available on request.

PROP NUT ANODES

	PID	LB	KG		ID	OD	H	UPC
ZN	CMPN01Z	4.00	1.80	mm	63	85	92	6 28309 11476 3
AL	CMPN01A	1.70	0.75	in	2.5	3.37	3.62	6 28309 12382 6
ZN	CMPN02Z	4.90	2.23	mm	73	95	101	6 28309 11477 0
AL	CMPN02A	2.30	1.05	in	2.87	3.75	4	6 28309 12383 3
ZN	CMPN03Z	6.00	2.70	mm	82	104	101	6 28309 11478 7
AL	CMPN03A	2.50	1.15	in	3.25	4.12	4	6 28309 12384 0
ZN	CMPN04Z	7.50	3.40	mm	95	117	114	6 28309 11479 4
AL	CMPN04A	3.20	1.45	in	3.75	4.62	4.5	6 28309 12385 7
ZN	CMPN05Z	11.00	5.00	mm	107	133	127	6 28309 11480 0
AL	CMPN05A	4.60	2.10	in	4.25	5.25	5	6 28309 12386 4



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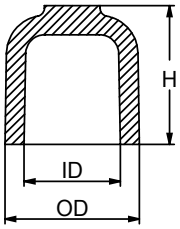
Find more online at **www.martyranodes.com**

PROP NUT ANODES

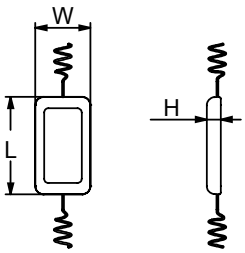


	PID	LB	KG		ID	OD	H	UPC
ZN	CMPN06Z	11.50	5.20	mm	117	142	139	6 28309 11481 7
AL	CMPN06A	4.80	2.20	in	4.62	5.62	5.5	6 28309 12387 1
ZN	CMPN07Z	13.00	5.90	mm	127	152	152	6 28309 11482 4
AL	CMPN07A	5.50	2.50	in	5	6	6	6 28309 12388 8
ZN	CMPN08Z	17.40	7.90	mm	139	168	161	6 28309 11483 1
AL	CMPN08A	7.00	3.20	in	5.5	6.62	6.37	6 28309 12389 5
ZN	CMPN09Z	19.50	8.85	mm	152	180	171	6 28309 11484 8
AL	CMPN09A	8.20	3.70	in	6	7.12	6.75	6 28309 12390 1
ZN	CMPN10Z	25.00	11.35	mm	165	196	177	6 28309 11485 5
AL	CMPN10A	10.50	4.75	in	6.5	7.75	7	6 28309 12101 3
ZN	CMPN11Z	28.00	12.70	mm	177	206	206	6 28309 11486 2
AL	CMPN11A	11.80	5.35	in	7	8.12	8.12	6 28309 12391 8
ZN	CMPN12Z	38.50	17.50	mm	190	222	228	6 28309 11487 9
AL	CMPN12A	15.90	7.20	in	7.5	8.75	9	6 28309 12392 5
ZN	CMPN13AZ	2.00	0.90	mm	50	69	73	6 28309 11488 6
AL	CMPN13AA	0.80	0.35	in	2	2.75	2.87	6 28309 12393 2
ZN	CMPN13BZ	2.50	1.15	mm	57	76	76	6 28309 24142 1
AL	CMPN13BA	1.10	0.50	in	2.25	3	3	6 28309 24241 1

PLATE STOCK ANODES

Available with or

without wires



	PID	LB	KG		L	W	H	UPC
ZN	CMPMZ/CMPMWZ	2.00	0.90	mm	114	64	17	6 28309 11265 3
AL	CMPMA/CMPMWA	0.78	0.35	in	4.5	2.5	0.65	6 28309 24363 0
ZN	CMPNZ/CMPNWZ	3.25	1.48	mm	152	76	19	6 28309 11267 7
AL	CMPNA/CMPNWA	1.26	0.57	in	6	3	0.75	6 28309 10871 7
ZN	CMPOZ/CMPOWZ	4.38	1.99	mm	152	102	19	6 28309 11269 1
AL	CMPOA/CMPOWA	1.70	0.77	in	6	4	0.75	6 28309 24247 3
ZN	CMPPZ/CMPPWZ	9.25	4.20	mm	229	127	21	6 28309 11272 1
AL	CMPPA/CMPPWA	3.59	1.63	in	9	5	0.8	6 28309 24248 0
ZN	CMP0515115Z	2.21	1.00	mm	288	38	13	6 28309 11973 7
AL	CMP0515115A	0.89	0.40	in	11.5	1.5	0.5	6 28309 24230 5
ZN	CMP051512Z	2.30	1.04	mm	305	38	13	6 28309 11237 0
AL	CMP051512A	0.93	0.42	in	12	1.5	0.5	6 28309 24231 2
ZN	CMP05204Z	1.02	4.63	mm	100	50	13	6 28309 11947 8
AL	CMP05204A	0.41	0.18	in	4	2	0.5	6 28309 24232 9
ZN	CMP05212Z	3.07	1.39	mm	305	50	13	6 28309 11948 5
AL	CMP05212A	1.24	0.56	in	12	2	0.5	6 28309 24233 6
ZN	CMP05224Z	6.14	2.79	mm	710	50	13	6 28309 11418 3
AL	CMP05224A	2.48	1.13	in	24	2	0.5	6 28309 24234 3
ZN	CMP05303Z	1.25	0.57	mm	76	76	13	6 28309 11240 0
AL	CMP05303A	0.50	0.23	in	3	3	0.5	6 28309 11443 5

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PLATE STOCK ANODES

	PID	LB	KG		L	W	H	UPC
ZN	CMP05306Z	2.20	1.00	mm	152	76	13	6 28309 11242 4
AL	CMP05306A	0.90	0.41	in	6	3	0.5	6 28309 11444 2
ZN	CMP05406Z	3.07	1.39	mm	152	100	13	6 28309 11246 2
AL	CMP05406A	1.24	0.56	in	6	4	0.5	6 28309 24235 0
ZN	CMP05312Z	4.61	2.10	mm	305	76	13	6 28309 11244 8
AL	CMP05312A	1.86	0.84	in	12	3	0.5	6 28309 11244 8
ZN	CMP05606Z	4.80	2.15	mm	152	152	13	6 28309 11247 9
AL	CMP05606A	1.90	0.86	in	6	6	0.5	6 28309 11445 9
ZN	CMP05612Z	9.50	4.31	mm	305	152	13	6 28309 11249 3
AL	CMP05612A	3.80	1.72	in	12	6	0.5	6 28309 12035 1
ZN	CMP075106Z	1.15	0.52	mm	152	25	19	6 28309 12020 7
AL	CMP075106A	0.46	0.21	in	6	1	0.75	6 28309 24237 4
ZN	CMP075303Z	1.75	0.79	mm	76	76	19	6 28309 11251 6
AL	CMP075303A	0.70	0.32	in	3	3	0.75	6 28309 11931 7
ZN	CMP075306Z	3.50	1.59	mm	152	76	19	6 28309 11252 3
AL	CMP075306A	1.40	0.64	in	6	3	0.75	6 28309 11447 3
ZN	CMP075606Z	6.55	2.97	mm	152	152	19	6 28309 11254 7
AL	CMP075606A	2.60	1.18	in	6	6	0.75	6 28309 12009 2
ZN	CMP075612Z	14.00	6.35	mm	305	152	19	6 28309 11255 4
AL	CMP075612A	5.60	2.54	in	12	6	0.75	6 28309 12010 8
ZN	CMP1206Z	3.07	1.39	mm	152	50	25	6 28309 11256 1
AL	CMP1206A	1.24	0.56	in	6	2	1	6 28309 12409 0
ZN	CMP1303Z	2.25	1.01	mm	76	76	25	6 28309 11257 8
AL	CMP1303A	0.90	0.41	in	3	3	1	6 28309 11449 7
ZN	CMP1304Z	3.07	1.39	mm	104	76	25	6 28309 12165 5
AL	CMP1304A	1.24	0.56	in	4	3	1	6 28309 12554 7
ZN	CMP1306Z	4.50	2.04	mm	152	76	25	6 28309 11259 2
AL	CMP1306A	1.80	0.82	in	6	3	1	6 28309 11450 3
ZN	CMP1406Z	6.11	2.77	mm	152	104	25	6 28309 11260 8
AL	CMP1406A	2.44	1.10	in	6	4	1	6 28309 12555 4
ZN	CMP1606Z	9.00	4.08	mm	152	152	25	6 28309 11261 5
AL	CMP1606A	3.60	1.63	in	6	6	1	6 28309 12007 8
ZN	CMP1612Z	18.00	8.16	mm	305	152	25	6 28309 11262 2
AL	CMP1612A	7.20	3.27	in	12	6	1	6 28309 12008 5
ZN	CMP075406Z	4.60	2.09	mm	152	104	20	6 28309 12102 0
AL	CMP075406A	1.84	0.84	in	6	4	0.8	6 28309 12405 2
ZN	CMP11504Z	1.50	0.68	mm	104	38	25	6 28309 12169 3
AL	CMP11504A	0.60	0.27	in	4	1.5	1	6 28309 12407 6
ZN	CMP11505Z	2.00	0.91	mm	125	38	25	6 28309 12203 4
AL	CMP11505A	0.80	0.36	in	5	1.5	1	6 28309 12408 3

Available with or

without wires

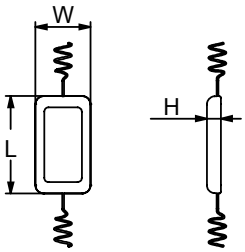

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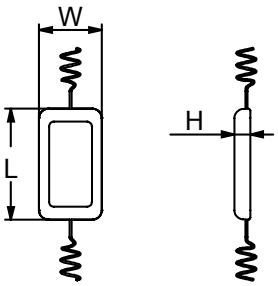
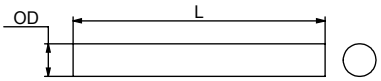
PLATE STOCK ANODES



	PID	LB	KG		L	W	H	UPC
ZN	CMP166Z	8.80	3.99	mm	155	155	25	6 28309 12236 2
AL	CMP166A	3.52	1.60	in	6.12	6.12	1	6 28309 12556 1
ZN	CMP631Z	4.41	2.00	mm	155	80	25	6 28309 12193 8
AL	CMP631A	1.76	0.80	in	6.12	3.2	1	6 28309 24240 4
ZN	CMP05306WZ	2.30	1.04	mm	152	76	13	6 28309 11242 4
AL	CMP05306WA	0.92	0.42	in	6	3	0.5	6 28309 11444 2
ZN	CMP05606WZ	4.61	2.10	mm	152	152	13	6 28309 11247 9
AL	CMP05606WA	1.84	0.84	in	6	6	0.5	6 28309 11445 9
ZN	CMP05612WZ	9.20	4.19	mm	305	152	13	6 28309 11250 9
AL	CMP05612WA	3.68	1.67	in	12	6	0.5	6 28309 24236 7
ZN	CMP075306WZ	3.46	1.57	mm	152	76	19	6 28309 11253 0
AL	CMP075306WA	1.38	0.63	in	6	3	0.75	6 28309 24238 1
ZN	CMP075406WZ	4.61	2.10	mm	152	101	20	6 28309 12406 9
AL	CMP075406WA	1.84	0.84	in	6	4	0.8	6 28309 24239 8

ROD STOCK ANODES



	PID	LB	KG		L	OD	UPC
ZN	CMR0512Z	0.60	0.27	mm	305	13	6 28309 12173 0
				in	12	0.5	
ZN	CMR062512Z	0.96	0.43	mm	305	16	6 28309 12234 8
				in	12	0.62	
ZN	CMR07512Z	1.35	0.61	mm	305	19	6 28309 12207 2
				in	12	0.75	
ZN	CMR1524Z	10.80	4.90	mm	610	38	6 28309 11950 8
				in	24	1.5	
ZN	CMR224Z	19.30	8.76	mm	610	50	6 28309 11427 5
				in	24	2	
ZN	CMR324Z	43.20	19.60	mm	610	76	6 28309 11428 2
				in	24	3	
ZN	CMR037536Z	1.01	0.46	mm	914	9	6 28309 12160 0
				in	36	0.37	
ZN	CMR0536Z	1.80	0.82	mm	914	13	6 28309 12157 0
				in	36	0.5	
ZN	CMR062539Z	3.14	1.42	mm	1000	16	6 28309 12158 7
				in	39	0.62	
ZN	CMR07539Z	4.43	2.01	mm	1000	19	6 28309 12161 7
				in	39	0.75	
ZN	CMR087539Z	5.93	2.69	mm	1000	22	6 28309 12162 4
				in	39	0.87	
ZN	CMR139Z	7.66	3.48	mm	1000	25	6 28309 12156 3
				in	39	1	
ZN	CMR12539Z	12.55	5.70	mm	1000	32	6 28309 12159 4
				in	39	1.25	

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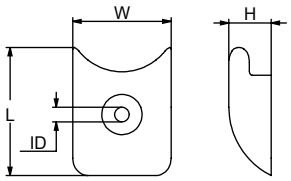
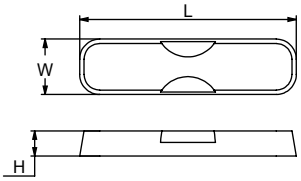
WALTER KEEL ANODES

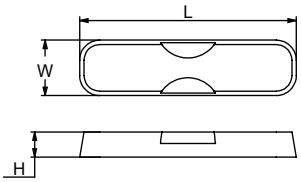
	PID	LB	KG		L	W	H	ID	UPC
ZN	CMKK1Z	1.02	0.46	mm	84	65	29	10	6 28309 19173 3
AL	CMKK1A	0.41	0.19						6 28309 11495 4
MG	CMKK1M	0.28	0.13	in	3.32	2.57	1.12	0.37	6 28309 24340 1
ZN	CMKK2Z	1.21	0.55	mm	84	83	29	10	6 28309 11381 0
AL	CMKK2A	0.48	0.22						6 28309 19174 0
MG	CMKK2M	0.34	0.15	in	3.22	3.25	1.12	0.37	6 28309 24341 8
ZN	CMKK3Z	3.12	1.42	mm	137	89	41	9	6 28309 11473 2
AL	CMKK3A	1.25	0.57						6 28309 19175 7
MG	CMKK3M	0.87	0.39	in	5.4	3.5	1.62	0.35	6 28309 24342 5



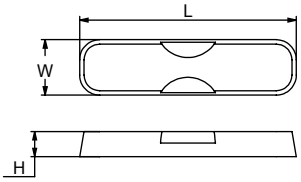
	PID	LB	KG		L	W	H	UPC
ZN	CMX453Z	0.21	0.10	mm	86	22	10	6 28309 11190 8
AL	CMX453A	0.08	0.04					6 28309 19176 4
MG	CMX453M	0.06	0.03	in	3.37	0.87	0.37	6 28309 24395 1



	PID	LB	KG		L	W	H	UPC
ZN	CMX473Z	0.63	0.29	mm	172	32	10	6 28309 11191 5
AL	CMX473A	0.25	0.11					6 28309 19177 1
MG	CMX473M	0.18	0.08	in	6.75	1.25	0.37	6 28309 24396 8



	PID	LB	KG		L	W	H	UPC
ZN	CMX58Z	0.73	0.33	mm	159	22	12	6 28309 11192 2
AL	CMX58A	0.29	0.13					6 28309 19178 8
MG	CMX58M	0.20	0.10	in	6.25	0.87	0.5	6 28309 24397 5

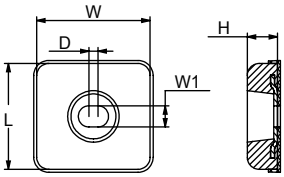


COMMERCIAL

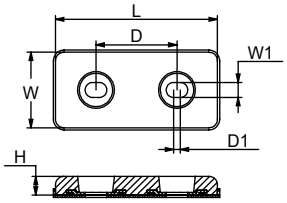
HULL ANODES (SPECIAL ORDERS)

HULL ANODES

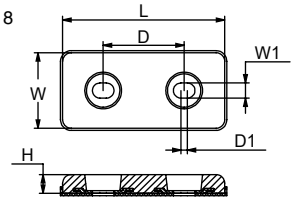
Bolt-on	PID	LB	KG		L	W	W1	H	D	UPC
ZN	JDP320220Z	1.28	0.58	mm	75	70	14	20	6	6 28309 23990 9
				in	3	2.8	0.55	0.8	0.24	



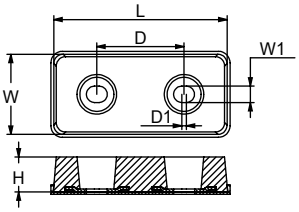
Bolt-on	PID	LB	KG		L	W	W1	H	D	D1	UPC
ZN	JDP320221Z	2.35	1.07	mm	150	70	14	18	75	6	6 28309 23991 6
				in	5.9	2.8	0.55	0.7	2.95	0.24	



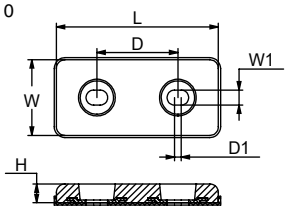
Bolt-on	PID	LB	KG		L	W	W1	H	D	D1	UPC
ZN	JDP320222Z	2.68	1.22	mm	150	70	14	20	75	6	6 28309 23992 3
AL	JDP320222A	1.18	0.54	in	5.9	2.8	0.55	0.8	2.95	0.24	6 28309 24031 8



Bolt-on	PID	LB	KG		L	W	W1	H	D	D1	UPC
ZN	JDB2GBZ	3.20	1.50	mm	150	75	14	25	75	4	6 28309 23967 1
AL	JDB2GBA	1.30	0.60	in	2.9	3	0.55	1	2.95	0.16	6 28309 24009 7



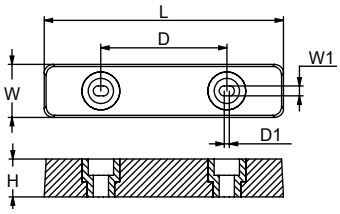
Bolt-on	PID	LB	KG		L	W	W1	H	D	D1	UPC
ZN	JDP320223Z	3.28	1.49	mm	150	70	14	25	75	6	6 28309 23993 0
				in	5.9	2.8	0.55	1	2.95	0.24	



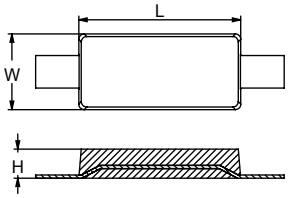
*Remember: **Zinc** - Salt water only, **Aluminum** - Salt and Brackish water, **Magnesium** - Fresh water only.*

HULL ANODES

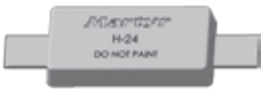
BOLT HOLES CAN BE ADDED ON STRAPS AS REQUIRED

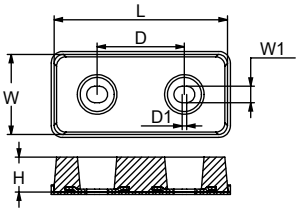


Bolt-on	PID	LB	KG		L	W	W1	H	D	D1	UPC
ZN	JDH39SBZ	3.30	1.50	mm	190	42	8	30	100	4	6 28309 17199 5
AL	JDH39SBA	1.32	0.60	in	7.5	1.62	0.31	1.19	3.94	0.16	6 28309 24020 2

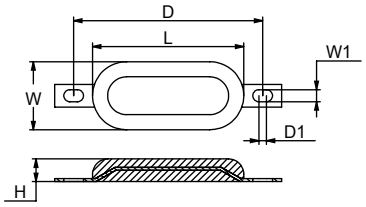


Weld-on	PID	LB	KG		L	W	H	UPC
ZN	JDH24GZ	4.20	1.90	mm	150	70	27	6 28309 17196 4
AL	JDH24GA	2.00	0.90	in	5.9	2.76	1.1	6 28309 17356 2

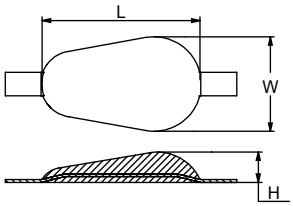




Bolt-on	PID	LB	KG		L	W	W1	H	D	D1	UPC
ZN	JDP320219Z	4.30	1.95	mm	200	100	14	15	110	6	6 28309 23989 3
				in	7.87	3.94	0.55	0.59	4.33	0.24	



Combo	PID	LB	KG		L	W	W1	H	D	D1	UPC
ZN	JDH48GZ	4.40	2.00	mm	200	80	16	30	200	10	6 28309 17201 5
AL	JDH48GA	1.90	0.90	in	7.87	3.15	0.63	1.18	7.87	0.39	6 28309 17372 2

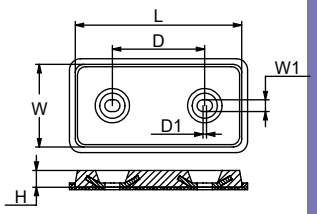


Weld-on	PID	LB	KG		L	W	H	UPC
ZN	JDDM20Z	4.85	2.20	mm	169	100	32	6 28309 17167 4
AL	JDDM20A	2.00	0.90	in	6.7	4	1.26	6 28309 21525 5

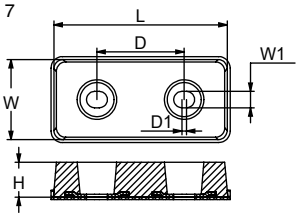
HULL ANODES

BOLT HOLES CAN BE ADDED ON STRAPS AS REQUIRED

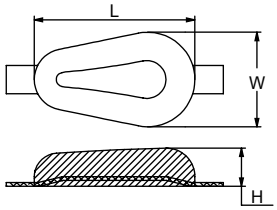
Bolt-on	PID	LB	KG		L	W	W1	H	D	D1	UPC
ZN	JDB3GBZ	5.50	2.50	mm	200	100	14	20	110	4	6 28309 17152 0
AL	JDB3GBA	2.30	1.00	in	7.87	3.94	0.55	0.8	4.33	0.16	6 28309 17323 4



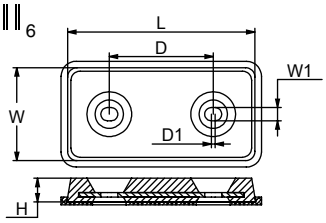
Bolt-on	PID	LB	KG		L	W	W1	H	D	D1	UPC
ZN	JDP320224Z	5.64	2.56	mm	200	100	14	20	110	6	6 28309 23994 7
				in	7.87	3.94	0.55	0.8	4.33	0.24	



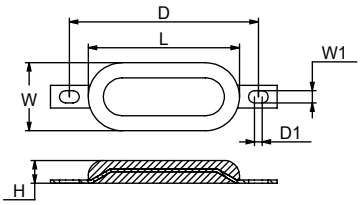
Weld-on	PID	LB	KG		L	W	H	UPC
ZN	JDDM28GBZ	6.60	3.00	mm	170	100	40	6 28309 17171 1
AL	JDDM28GBA	2.90	1.30	in	6.7	3.9	1.57	6 28309 24012 7



Bolt-on	PID	LB	KG		L	W	W1	H	D	D1	UPC
ZN	JDH62GBZ	6.60	3.00	mm	200	100	14	25	110	4	6 28309 17213 8
AL	JDH62GBA	2.90	1.30	in	7.87	3.94	0.55	1	4.33	0.16	6 28309 17387 6



Combo	PID	LB	KG		L	W	W1	H	D	D1	UPC
ZN	JDH49GBZ	6.60	3.00	mm	200	90	16	30	250	10	6 28309 17202 2
AL	JDH49GBA	2.20	1.00	in	7.87	3.54	0.63	1.18	9.84	0.39	6 28309 17373 9



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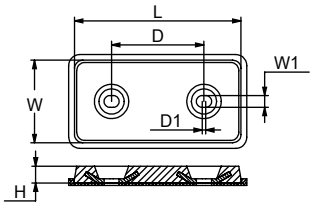
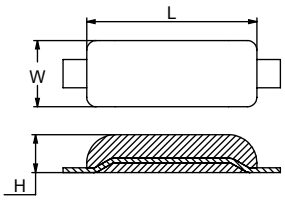
HULL ANODES

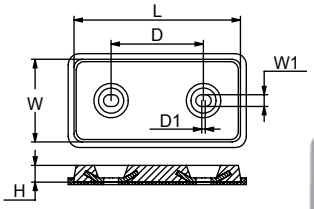
BOLT HOLES CAN BE ADDED ON STRAPS AS REQUIRED



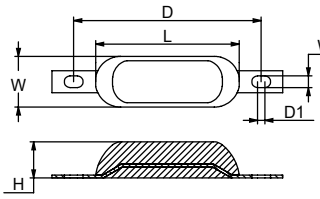
Bolt-on	PID	LB	KG		L	W	W1	H	D	D1	UPC
ZN	JDH56GBZ	6.80	3.10	mm	200	100	14	25	110	4	6 28309 17379 1
AL	JDH56GBA	3.10	1.40	in	7.87	3.94	0.55	1	4.33	0.16	6 28309 17378 4



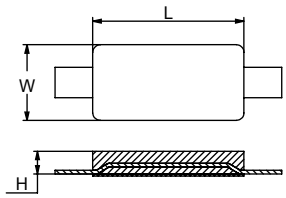
Weld-on	PID	LB	KG		L	W	H	UPC
ZN	JDH10GZ	7.50	3.40	mm	180	70	40	6 28309 17182 7
AL	JDH10GA	3.10	1.40	in	7.1	2.76	1.57	6 28309 17343 2



Weld-on	PID	LB	KG		L	W	W1	H	D	D1	UPC
ZN	JDB4GBZ	7.90	3.60	mm	200	100	14	30	110	4	6 28309 23968 8
AL	JDB4GBA	3.30	1.50	in	7.87	3.94	0.55	1.18	4.33	0.16	6 28309 24010 3



Bolt-on	PID	LB	KG		L	W	W1	H	D	D1	UPC
ZN	JDH55GBZ	9.10	4.20	mm	200	70	16	50	250	10	6 28309 23984 8
AL	JDH55GBA	3.70	1.70	in	7.87	2.75	0.63	1.97	9.84	0.39	6 28309 17377 7

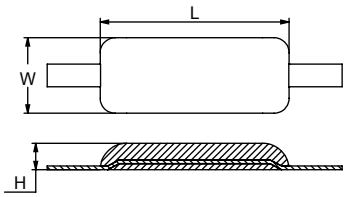


Weld-on	PID	LB	KG		L	W	H	UPC
ZN	JDS4GZ	9.20	4.20	mm	200	100	30	6 28309 23995 4
AL	JDS4GA	4.20	1.90	in	7.87	3.94	1.18	6 28309 17411 8

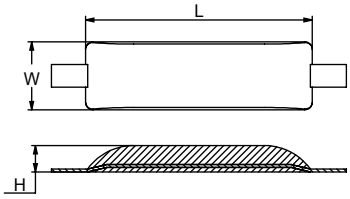
HULL ANODES

BOLT HOLES CAN BE ADDED ON STRAPS AS REQUIRED

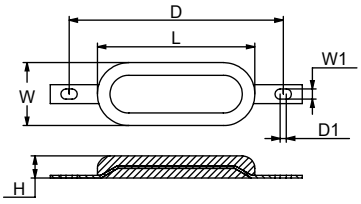
Weld-on	PID	LB	KG		L	W	H	UPC
ZN	JDGBZH02Z	11.90	5.40	mm	250	100	35	6 28309 17180 3
AL	JDGBZH02A	5.07	2.30	in	9.8	4	1.38	6 28309 17339 5



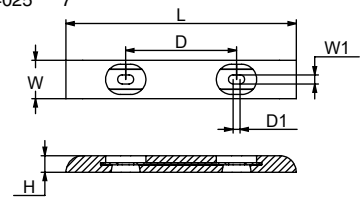
Weld-on	PID	LB	KG		L	W	H	UPC
ZN	JDDM45Z	13.00	5.90	mm	300	90	35	6 28309 17172 8
AL	JDDM45A	5.00	2.30	in	11.8	3.54	1.38	6 28309 24013 4



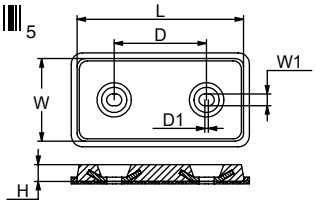
Combo	PID	LB	KG		L	W	W1	H	D	D1	UPC
ZN	JDH50GBZ	11.00	5.00	mm	250	100	16	35	340	10	6 28309 17204 6
AL	JDH50GBA	4.62	2.10	in	9.8	4	0.63	1.38	13.4	0.39	6 28309 24023 3



Bolt-on	PID	LB	KG		L	W	W1	H	D	D1	UPC
ZN	JDH53GBZ	14.50	6.60	mm	457	76	18	33	220	14	6 28309 17207 7
AL	JDH53GBA	5.90	2.70	in	18	3	0.7	1.3	8.66	0.55	6 28309 24025 7



Bolt-on	PID	LB	KG		L	W	W1	H	D	D1	UPC
ZN	JDB8GBZ	16.10	7.30	mm	300	150	18	25	160	4	6 28309 17156 8
AL	JDB8GBA	6.40	2.90	in	11.8	5.9	0.7	1	6.3	0.16	6 28309 17326 5



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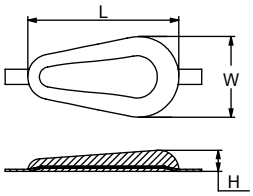
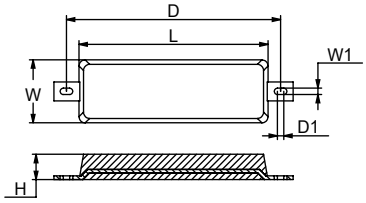
HULL ANODES

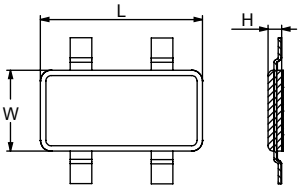
BOLT HOLES CAN BE ADDED ON STRAPS AS REQUIRED



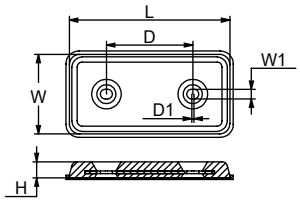
Weld-on	PID	LB	KG		L	W	H	UPC
ZN	JDDM60GZ	16.50	7.50	mm	300	160	42	6 28309 17173 5
AL	JDDM60GA	6.38	2.90	in	11.8	6.3	1.63	6 28309 17336 4



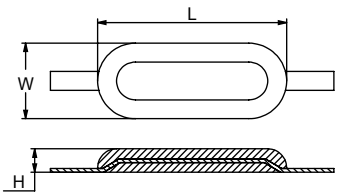
Bolt-on	PID	LB	KG		L	W	W1	H	D	D1	UPC
ZN	JDH61GBZ	17.2	7.8	mm	300	100	10	40	340	10	6 28309 17211 4
AL	JDH61GBA	7.0	3.2	in	11.8	3.94	0.39	1.57	14	0.39	6 28309 17386 9



Weld-on	PID	LB	KG		L	W	H	UPC
ZN	JDS8GZ	17.60	8.00	mm	300	150	25	6 28309 17290 9
AL	JDS8GA	7.70	3.50	in	11.8	5.9	1	6 28309 24034 9



Bolt-on	PID	LB	KG		L	W	W1	H	D	D1	UPC
ZN	JDH63GBZ	17.60	8.00	mm	300	150	18	30	160	4	6 28309 17214 5
AL	JDH63GBA	7.00	3.20	in	11.8	5.9	0.7	1.18	6.3	0.16	6 28309 17585 6



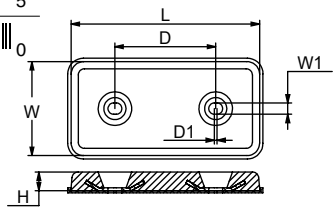
Weld-on	PID	LB	KG		L	W	H	UPC
ZN	JDH51GZ	17.60	8.00	mm	300	120	37	6 28309 17205 3
AL	JDH51GA	7.70	3.50	in	11.8	4.7	1.46	6 28309 17375 3

*Remember: **Zinc** - Salt water only, **Aluminum** - Salt and Brackish water, **Magnesium** - Fresh water only.*

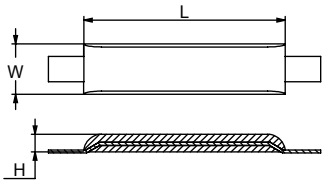
HULL ANODES

BOLT HOLES CAN BE ADDED ON STRAPS AS REQUIRED

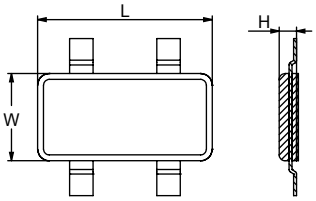
Bolt-on	PID	LB	KG		L	W	W1	H	D	D1	UPC
ZN	JDB9GBZ	18.30	8.30	mm	300	150	18	30	160	22	6 28309 17157 5
AL	JDB9GBA	7.00	3.20	in	11.8	5.9	0.7	1.18	6.3	0.87	6 28309 24011 0



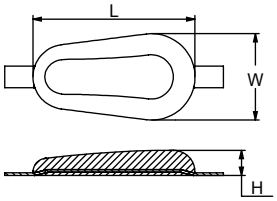
Weld-on	PID	LB	KG		L	W	H	UPC
ZN	JDH01Z	19.50	9.00	mm	400	100	35	6 28309 23972 5
AL	JDH01A	8.80	4.00	in	15.75	4	1.38	6 28309 24016 5



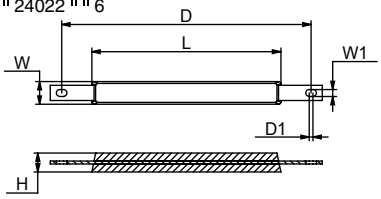
Weld-on	PID	LB	KG		L	W	H	UPC
ZN	JDS9GZ	19.80	9.00	mm	300	150	30	6 28309 17291 6
AL	JDS9GA	8.80	4.00	in	11.8	5.9	1.18	6 28309 24036 3



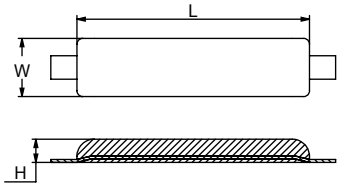
Weld-on	PID	LB	KG		L	W	H	UPC
ZN	JDDM96GZ	22.00	10.00	mm	300	150	45	6 28309 17174 2
AL	JDDM96GA	9.24	4.20	in	11.8	5.9	1.77	6 28309 24014 1



Combo	PID	LB	KG		L	W	W1	H	D	D1	UPC
ZN	JDH47GBZ	23.50	10.70	mm	500	60	18	50	660	12	6 28309 23983 1
AL	JDH47GBA	10.30	4.70	in	19.7	2.36	0.7	1.97	26	0.47	6 28309 24022 6



Weld-on	PID	LB	KG		L	W	H	UPC
ZN	JDH7GZ	23.50	10.70	mm	400	100	40	6 28309 17218 3
AL	JDH7GA	9.90	4.50	in	15.7	3.94	1.57	6 28309 17391 3



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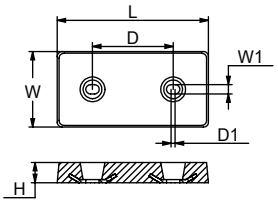
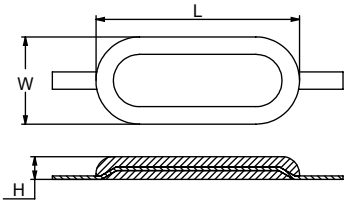
HULL ANODES

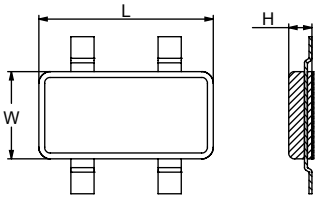
BOLT HOLES CAN BE ADDED ON STRAPS AS REQUIRED



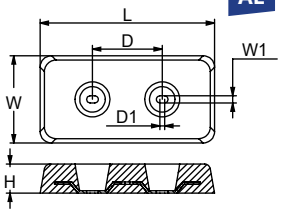
Bolt-on	PID	LB	KG		L	W	W1	H	D	D1	UPC
ZN	JDH21GBZ	24.2	11.0	mm	300	150	18	40	160	8	6 28309 17188 9
AL	JDH21GBA	9.2	4.2	in	11.8	5.9	0.72	1.57	6.3	0.32	6 28309 17350 0



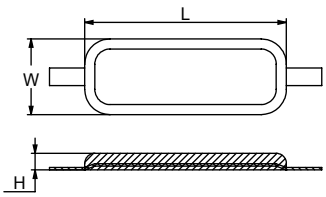
Weld-on	PID	LB	KG		L	W	H	UPC
ZN	JDH52GZ	26.40	12.00	mm	350	150	39	6 28309 17206 0
AL	JDH52GA	10.80	4.90	in	13.8	5.9	1.5	6 28309 24024 0



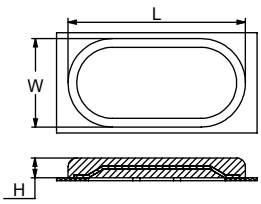
Weld-on	PID	LB	KG		L	W	H	UPC
ZN	JDS9EGZ	26.40	12.00	mm	300	150	40	6 28309 17292 3
AL	JDS9EGA	11.00	5.00	in	11.8	5.9	1.57	6 28309 24035 6



Bolt-on	PID	LB	KG		L	W	W1	H	D	D1	UPC
ZN	JDH13GBZ	26.4	12.0	mm	300	150	12	50	120	8	6 28309 17760 7
AL	JDH13GBA	10.8	4.9	in	11.8	5.9	0.47	2	4.72	0.32	6 28309 24017 2



Weld-on	PID	LB	KG		L	W	H	UPC
ZN	JDH26GZ	27.10	12.30	mm	400	150	33	6 28309 23976 3
AL	JDH26GA	11.00	5.00	in	15.7	5.9	1.3	6 28309 17360 9



Weld-on	PID	LB	KG		L	W	H	UPC
AL	JDH36GA	11.20	5.10	mm	305	152	34	6 28309 17364 7
				in	12	6	1.34	

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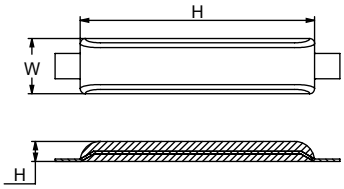
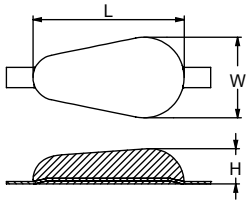
HULL ANODES

BOLT HOLES CAN BE ADDED ON STRAPS AS REQUIRED

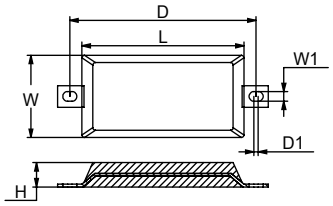
Weld-on	PID	LB	KG		L	W	H	UPC
ZN	JDH60GZ	27.50	12.50	mm	465	110	40	6 28309 17210 7
AL	JDH60GA	11.90	5.40	in	18.3	4.33	1.57	6 28309 24026 4



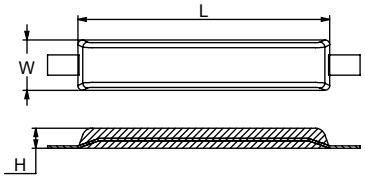
Weld-on	PID	LB	KG		L	W	H	UPC
ZN	JDDM121GZ	27.90	13.00	mm	300	160	70	6 28309 17163 6
AL	JDDM121GA	13.40	6.10	in	11.8	6.3	2.75	6 28309 17332 6



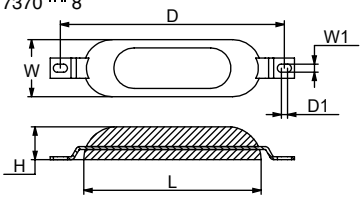
Combo	PID	LB	KG		L	W	W1	H	D	D1	UPC
ZN	JDDM121GBZ	28.60	13.00	mm	300	152	18	45	345	8	6 28309 17164 3
AL	JDDM121GBA	13.42	6.10	in	11.8	6	0.71	1.77	13.58	0.31	6 28309 17333 3



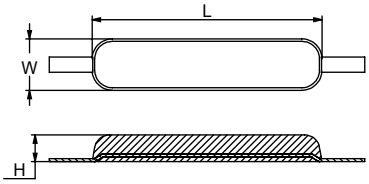
Weld-on	PID	LB	KG		L	W	H	UPC
ZN	JDH6GZ	28.60	13.00	mm	500	100	40	6 28309 17216 9
AL	JDH6GA	12.10	5.50	in	19.7	3.94	1.6	6 28309 17389 0



Combo	PID	LB	KG		L	W	W1	H	D	D1	UPC
ZN	JDH45GBZ	28.60	13.00	mm	352	113	16	65	445	16	6 28309 23982 4
AL	JDH45GBA	13.42	6.10	in	13.8	4.45	0.63	2.56	17.5	0.63	6 28309 17370 8



Weld-on	PID	LB	KG		L	W	H	UPC
ZN	JDZD140GZ	30.80	14.00	mm	456	102	53	6 28309 17306 7
AL	JDZD140GA	12.50	5.70	in	18	4	2.08	6 28309 24039 4



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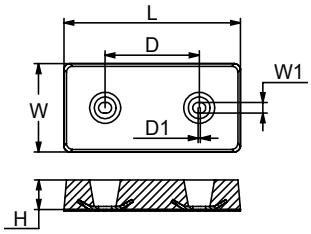
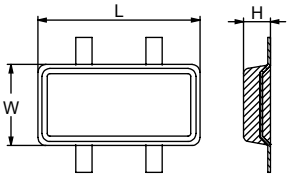
HULL ANODES

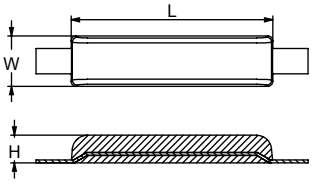
BOLT HOLES CAN BE ADDED ON STRAPS AS REQUIRED



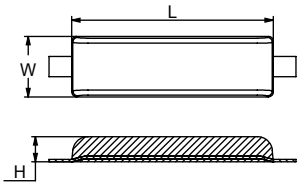
Bolt-on	PID	LB	KG		L	W	W1	H	D	D1	UPC
ZN	JDH23BZ	31.2	14.2	mm	300	150	18	50	160	8	6 28309 17192 6
AL	JDH23BA	12.1	5.5	in	11.8	5.9	0.72	1.96	6.3	0.32	6 28309 17354 8



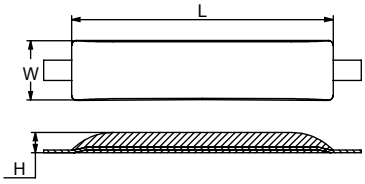
Weld-on	PID	LB	KG		L	W	H	UPC
ZN	JDH11GZ	31.90	14.50	mm	300	150	50	6 28309 17183 4
				in	11.8	5.9	2	



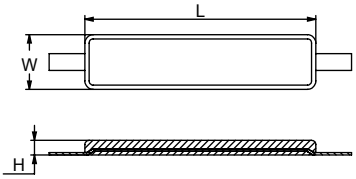
Weld-on	PID	LB	KG		L	W	H	UPC
ZN	JDGBZH01Z	33.00	15.00	mm	400	100	55	6 28309 17178 0
AL	JDGBZH01A	13.44	6.40	in	15.75	3.94	2.17	6 28309 17338 8



Weld-on	PID	LB	KG		L	W	H	UPC
ZN	JDH5GZ	35.00	15.90	mm	400	120	50	6 28309 17209 1
AL	JDH5GA	14.10	6.40	in	15.7	4.7	1.97	6 28309 17384 5



Weld-on	PID	LB	KG		L	W	H	UPC
ZN	JDDM155Z	36.60	16.60	mm	520	120	40	6 28309 17166 7
AL	JDDM155A	14.50	6.60	in	15.75	4.7	1.6	6 28309 17334 0



Weld-on	PID	LB	KG		L	W	H	UPC
ZN	JDZD170GZ	37.40	17.00	mm	550	130	35	6 28309 17307 4
AL	JDZD170GA	15.62	7.10	in	21.7	5.12	1.38	6 28309 24040 0

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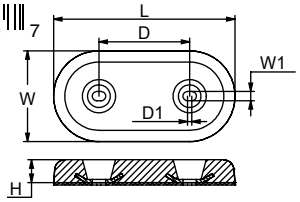
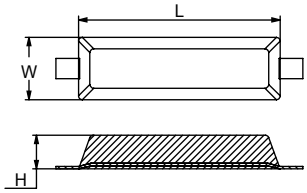
HULL ANODES

BOLT HOLES CAN BE ADDED ON STRAPS AS REQUIRED

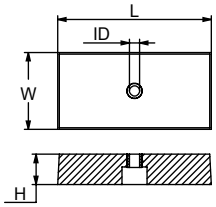
Bolt-on	PID	LB	KG		L	W	W1	H	D	D1	UPC
ZN	JDH58GBZ	37.80	17.20	mm	360	180	18	45	180	8	6 28309 17381 4
AL	JDH58GBA	15.20	6.90	in	14.1	7.1	0.72	1.77	7	0.32	6 28309 17380 7



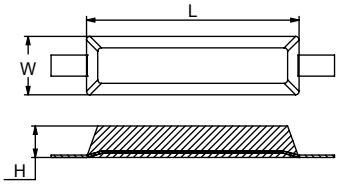
Weld-on	PID	LB	KG		L	W	H	UPC
ZN	JDH15GZ	37.80	17.20	mm	400	124	67	6 28309 23973 2
AL	JDH15GA	15.40	7.00	in	15.7	4.9	2.64	6 28309 17346 3



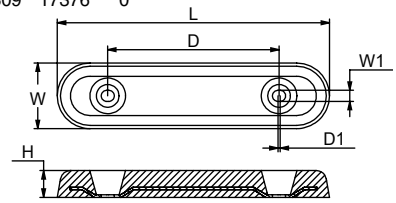
Bolt-on	PID	LB	KG		L	W	H	ID	UPC
ZN	JDH37SZ	40.50	18.40	mm	305	152	60	20	6 28309 23980 0
AL	JDH37SA	15.40	7.00	in	12	6	2.36	0.79	6 28309 17367 8



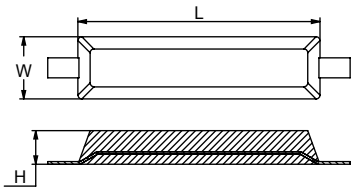
Weld-on	PID	LB	KG		L	W	H	UPC
ZN	JDH25SZ	42.90	19.50	mm	450	124	67	6 28309 17197 1
AL	JDH25SA	19.80	9.00	in	17.7	4.88	2.64	6 28309 17359 3



Bolt-on	PID	LB	KG		L	W	W1	H	D	D1	UPC
ZN	JDH54GBZ	44.00	20.00	mm	540	130	22	53	340	4	6 28309 17208 4
AL	JDH54GBA	17.90	8.10	in	21.26	5.12	0.87	2.08	13.4	0.16	6 28309 17376 0



Weld-on	PID	LB	KG		L	W	H	UPC
ZN	JDH35GZ	45.50	20.70	mm	480	124	67	6 28309 23979 4
AL	JDH35GA	18.70	8.50	in	18.9	4.88	2.64	6 28309 17363 0



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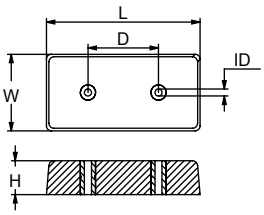
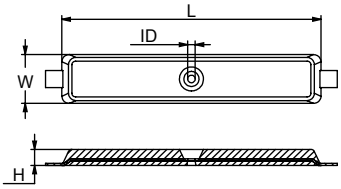
HULL ANODES

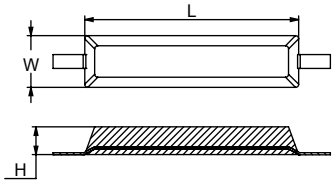
BOLT HOLES CAN BE ADDED ON STRAPS AS REQUIRED



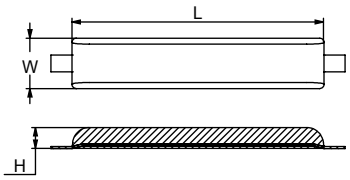
Bolt-on	PID	LB	KG		L	W	H	D	ID	UPC
ZN	JDH40SBZ	47.4	21.6	mm	305	152	67	140	14	6 28309 23981 7
AL	JDH40SBA	18.2	8.3	in	12	6	2.64	5.51	0.55	6 28309 17369 2



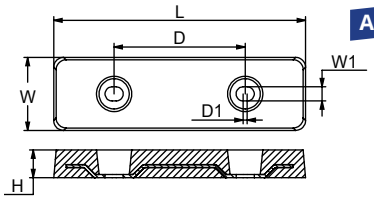
Combo	PID	LB	KG		L	W	H	ID	UPC
ZN	JDDM217Z	50.60	23.00	mm	680	128	40	20	6 28309 17168 1
AL	JDDM217A	20.90	9.50	in	26.8	5	1.57	0.79	6 28309 17335 7



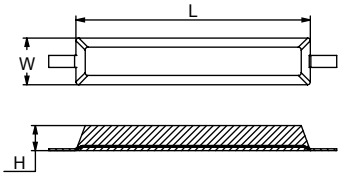
Weld-on	PID	LB	KG		L	W	H	UPC
ZN	JDH17GZ	51.50	23.40	mm	510	123	66	6 28309 23974 9
AL	JDH17GA	20.70	9.40	in	20	4.84	2.6	6 28309 17347 0



Weld-on	PID	LB	KG		L	W	H	UPC
ZN	JDH4GZ	52.40	23.80	mm	600	120	50	6 28309 17203 9
AL	JDH4GA	22.00	10.00	in	23.6	4.7	1.97	6 28309 17374 6



Bolt-on	PID	LB	KG		L	W	W1	H	D	D1	UPC
ZN	JDH59GBZ	60.7	27.6	mm	500	145	28	55	260	8	6 28309 23985 5
AL	JDH59GBA	21.1	9.6	in	19.7	5.7	1.1	2.17	10.24	0.31	6 28309 17382 1



Weld-on	PID	LB	KG		L	W	H	UPC
ZN	JDMA3305SZ	63.10	28.70	mm	620	124	67	6 28309 23988 6
AL	JDMA3305SA	25.10	11.40	in	24.4	4.88	2.64	6 28309 17394 4

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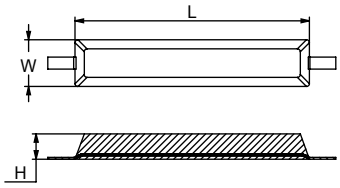
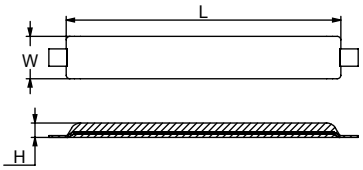
HULL ANODES

BOLT HOLES CAN BE ADDED ON STRAPS AS REQUIRED

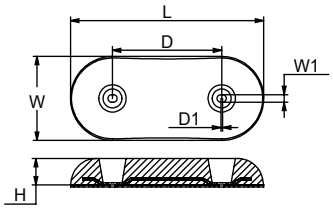
Weld-on	PID	LB	KG		L	W	H	UPC
ZN	JDH34GZ	64.00	29.10	mm	650	124	67	6 28309 23978 7
AL	JDH34GA	26.40	12.00	in	25.6	4.88	2.64	6 28309 17362 3



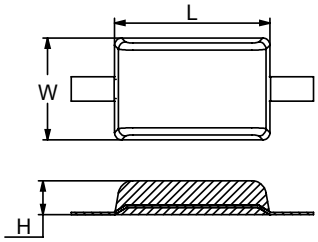
Weld-on	PID	LB	KG		L	W	H	UPC
ZN	JDDM105GZ	65.10	29.60	mm	800	123	42	6 28309 23970 1
AL	JDDM105GA	26.40	12.00	in	31.5	4.84	1.65	6 28309 17331 9



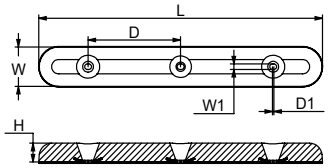
Bolt-on	PID	LB	KG		L	W	W1	H	D	D1	UPC
ZN	JDH24GBZ	64.90	29.50	mm	460	200	18	64	260	4	6 28309 17194 0
AL	JDH24GBA	25.30	11.50	in	18.1	7.87	0.71	2.52	10.25	0.16	6 28309 17357 9



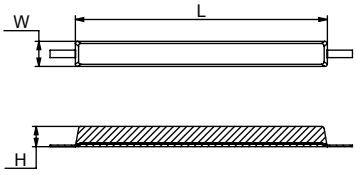
Bolt-on	PID	LB	KG		L	W	H	UPC
ZN	JDH22GZ	67.10	30.50	mm	320	210	70	6 28309 17191 9
AL	JDH22GA	26.80	12.20	in	12.6	8.27	2.76	6 28309 24018 9



Bolt-on	PID	LB	KG		L	W	W1	H	D	D1	UPC
ZN	JDH22GBZ	83.60	38.00	mm	920	130	18	60	300	4	6 28309 23975 6
AL	JDH22GBA	26.80	12.20	in	36.2	5.1	0.71	2.36	11.81	0.16	6 28309 17352 4



Weld-on	PID	LB	KG		L	W	H	UPC
ZN	JDE2GZ	111.00	50.40	mm	1000	100	80	6 28309 17175 9
AL	JDE2GA	45.50	20.70	in	39.4	3.94	3.15	6 28309 24015 8



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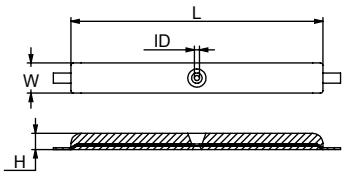
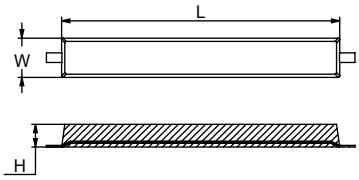
HULL ANODES

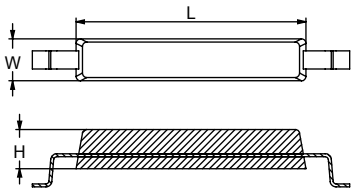
BOLT HOLES CAN BE ADDED ON STRAPS AS REQUIRED



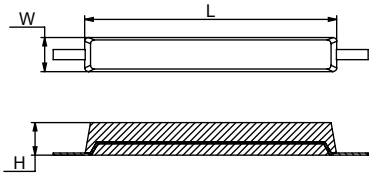
Combo	PID	LB	KG		L	W	H	ID	UPC
ZN	JD485GZ	110.0	50.0	mm	1000	120	64	20	6 28309 17145 2
AL	JD485GA	43.6	19.8	in	39.4	4.7	2.5	0.79	6 28309 17320 3



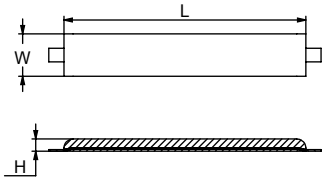
Weld-on	PID	LB	KG		L	W	H	UPC
ZN	JDH27GZ	124.80	56.70	mm	920	130	75	6 28309 23977 0
AL	JDH27GA	49.50	22.50	in	36.2	5.12	2.95	6 28309 17361 6



Weld-on	PID	LB	KG		L	W	H	UPC
ZN	JDC1GZ	189.00	86.00	mm	760	139	130	6 28309 17158 2
AL	JDC1GA	77.00	35.00	in	30	5.5	5.12	6 28309 17328 9



Weld-on	PID	LB	KG		L	W	H	UPC
ZN	JDE3GZ	242.00	110.00	mm	1000	135	130	6 28309 17176 6
AL	JDE3GA	93.70	42.60	in	39.4	5.31	5.12	6 28309 17337 1

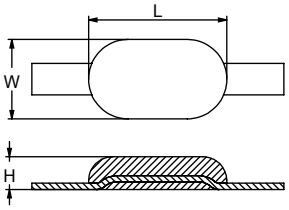


Weld-on	PID	LB	KG		L	W	H	UPC
ZN	JDH3GZ	67.00	30.40	mm	800	140	40	6 28309 17200 8
AL	JDH3GA	27.60	12.50	in	31.50	5.5	1.57	6 28309 17368 5

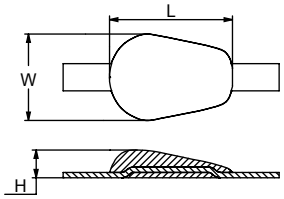
HULL ANODES

BOLT HOLES CAN BE ADDED ON STRAPS AS REQUIRED

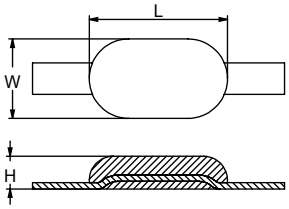
Weld-on	PID	LB	KG		L	W	H	UPC
ZN	SGSH506Z	1.32	0.60	mm	115	60	17	6 28309 18245 8
AL	SGSH506A	0.79	0.36					6 28309 18246 5
MG	SGSH506M	0.66	0.30	in	4.5	2.37	0.66	6 28309 18247 2
ZN	SGSH507Z	2.20	1.00	mm	110	63	26	6 28309 18248 9
AL	SGSH507A	1.15	0.52					6 28309 18249 6
MG	SGSH507M	0.88	0.40	in	4.33	2.48	1	6 28309 18250 2
ZN	SGSH508Z	3.97	1.80	mm	200	70	26	6 28309 18251 9
AL	SGSH508A	2.00	0.91					6 28309 18252 6
MG	SGSH508M	1.50	0.68	in	7.87	2.76	1.02	6 28309 18253 3
ZN	SGSH509Z	4.85	2.20	mm	215	70	29	6 28309 18254 0
AL	SGSH509A	2.43	1.10					6 28309 18255 7
MG	SGSH509M	1.72	0.78	in	8.46	2.75	1.14	6 28309 18256 4
ZN	SGSH510Z	7.54	3.00	mm	200	90	35	6 28309 18257 1
AL	SGSH510A	3.09	1.40					6 28309 18258 8
MG	SGSH510M	2.20	1.00	in	7.87	3.54	1.38	6 28309 18259 5



Weld-on	PID	LB	KG		L	W	H	UPC
ZN	SGSH100Z	2.20	1.00	mm	118	80	26	6 28309 18208 3
AL	SGSH100A	1.15	0.52					6 28309 18220 5
MG	SGSH100M	0.88	0.40	in	4.65	3.15	1	6 28309 18232 8
ZN	SGSH159Z	3.97	1.80	mm	140	90	40	6 28309 18209 0
AL	SGSH159A	1.92	0.87					6 28309 18221 2
MG	SGSH159M	1.43	0.65	in	5.50	3.54	1.57	6 28309 18233 5



Weld-on	PID	LB	KG		L	W	H	UPC
ZN	SGSH16Z	11.22	5.09	mm	300	80	40	6 28309 22293 2
AL	SGSH16A	4.94	2.24					6 28309 22624 4
MG	SGSH16M	3.53	1.60	in	11.8	3.15	1.57	6 28309 22844 6
ZN	SGSH25Z	19.38	8.79	mm	320	147	40	6 28309 22294 9
AL	SGSH25A	8.07	3.66					6 28309 22625 1
MG	SGSH25M	5.51	2.50	in	12.6	5.79	1.57	6 28309 22845 3



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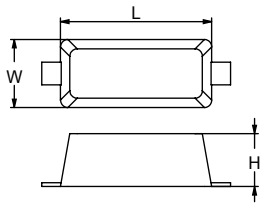
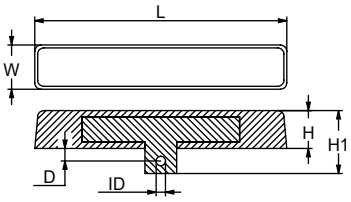
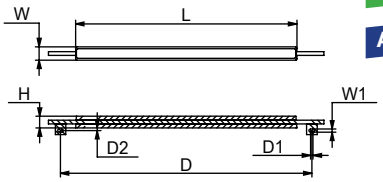
BALLAST TANK ANODES



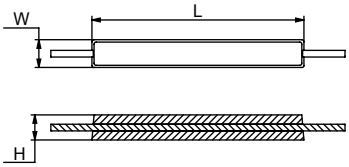
Weld-on	PID	LB	KG		L	W	H	UPC
ZN	JDZT8GZ	16.50	7.50	mm	200	90	70	6 28309 24007 3
AL	JDZT8GA	6.60	3.00	in	7.88	3.5	2.8	6 28309 24041 7



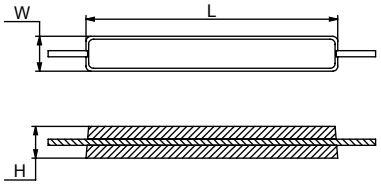
Combo	PID	LB	KG		L	W	H	H1	D	ID	UPC
ZN	JDT9GZ	22.0	10.0	mm	400	70	60	100	20	15	6 28309 17302 9
AL	JDT9GA	9.0	4.1	in	15.7	2.75	2.36	3.94	0.79	0.59	6 28309 24038 7



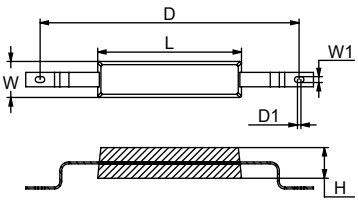
Combo	PID	LB	KG		L	W	H	H1	D	D1	UPC
ZN	JDI13GZ	25.33	11.5	mm	820	50	12	43	93	9	6 28309 23986 2
AL	JDI13GA	11.00	5.0	in	32	2	0.5	1.7	36.7	0.35	6 28309 17392 0



Weld-on	PID	LB	KG		L	W	H	UPC
ZN	JDT13GZ	28.60	13.00	mm	500	60	60	6 28309 24000 4
AL	JDT13GA	12.30	5.60	in	19.7	2.36	2.36	6 28309 17414 9



Weld-on	PID	LB	KG		L	W	H	UPC
ZN	JDGBZT01Z	34.40	15.60	mm	516	69	63	6 28309 17181 0
AL	JDGBZT01A	14.50	6.60	in	20.3	2.72	2.48	6 28309 17340 1



Combo	PID	LB	KG		L	W	W1	H	D	D1	UPC
ZN	JDT12GZ	48.4	22.0	mm	400	100	16	85	720	10	6 28309 23999 2
AL	JDT12GA	19.8	9.0	in	15.7	3.94	0.63	3.35	28.3	0.4	6 28309 17413 2

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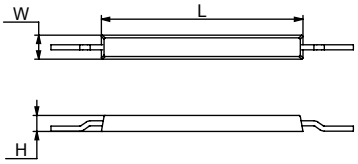
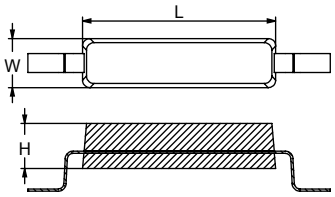
BALLAST TANK ANODES

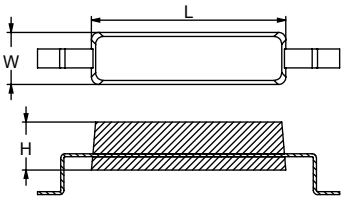
Weld-on	PID	LB	KG		L	W	H	UPC
ZN	JD237Z	55	25	mm	800	74	64	6 28309 23966 4
AL	JD237A	22	10	in	32	3	2.5	6 28309 24008 0



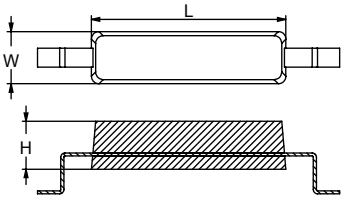
Combo	PID	LB	KG		L	W	H	UPC
ZN	JDT3GZ	108.5	49.3	mm	500	130	120	6 28309 24004 2
AL	JDT3GA	44	20	in	19.7	5.2	4.7	6 28309 17425 5



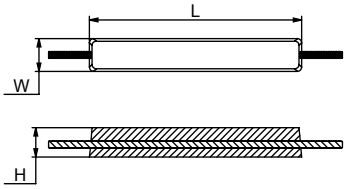
Combo	PID	LB	KG		L	W	H	UPC
ZN	JDT1GZ	131	59.5	mm	500	135	130	6 28309 24002 8
AL	JDT1GA	50.6	23	in	19.7	5.3	5.1	6 28309 17422 4



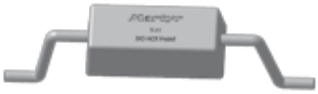
Combo	PID	LB	KG		L	W	H	UPC
ZN	JDI17GZ	449	204	mm	700	83	83	6 28309 23987 9
AL	JDI17GA	176	80	in	27.6	3.27	3.27	6 28309 17393 7

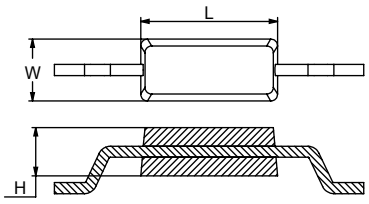


Weld-on	PID	LB	KG		L	W	H	UPC
ZN	JDT14GZ	38.8	17.6	mm	500	70	70	6 28309 17294 7
AL	JDT14GA	16.3	7.4	in	19.7	2.76	2.76	6 28309 17416 3



Weld-on	PID	LB	KG		L	W	H	UPC
ZN	JDT11GZ	18.7	8.5	mm	200	90	70	6 28309 17293 0
AL	JDT11GA	8.1	3.7	in	7.9	3.54	2.76	6 28309 17412 5





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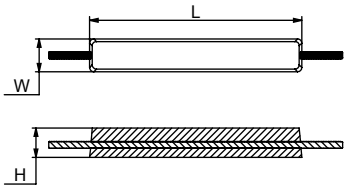
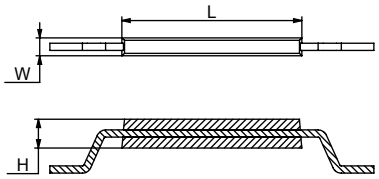
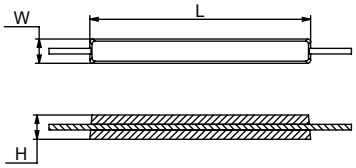
BALLAST TANK ANODES



Bolt-on	PID	LB	KG		L	W	H	UPC
ZN	JDT14GZF	39.2	17.8	mm	500	70	70	6 28309 17295 4
AL	JDT14GAF	16.3	7.4	in	19.7	2.76	2.76	6 28309 17417 0

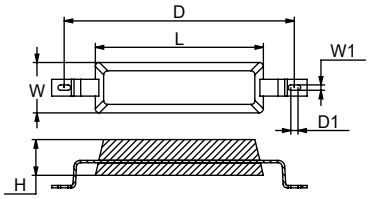


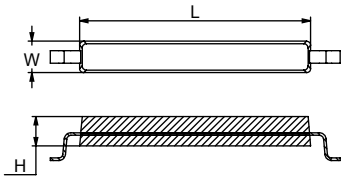
Weld-on	PID	LB	KG		L	W	H	UPC
ZN	JDT15GZ	90.2	41	mm	1000	80	80	6 28309 17296 1
AL	JDT15GA	36.3	16.5	in	39.4	3.15	3.15	6 28309 24037 0



Weld-on	PID	LB	KG		L	W	H	UPC
ZN	JDT16GZ	26.4	12	mm	730	80	80	6 28309 24001 1
AL	JDT16GA	11.7	5.3	in	28.7	3.15	3.15	6 28309 17418 7

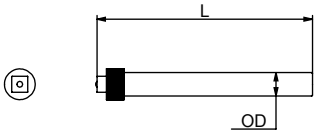
Combo	PID	LB	KG		L	W	W1	H	D	D1	UPC
ZN	JDT19GZ	59	26.8	mm	400	120	13	85	548	17	6 28309 17421 7
AL	JDT19GA	22.4	10.2	in	15.7	4.72	0.5	3.35	21.6	0.67	6 28309 17420 0





Weld-on	PID	LB	KG		L	W	H	UPC
ZN	JDT22GZ	40.9	18.6	mm	550	75	70	6 28309 24003 5
AL	JDT22GA	16.9	7.7	in	21.7	2.95	2.76	6 28309 17424 8

HEAT EXCHANGER ANODES



	PID	LB	KG		L	OD	UPC
ZN	JDROD25DZ	1.78	0.81	mm	228	25	6 28309 17245 9
				in	9	1	

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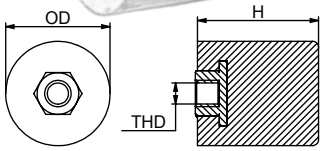
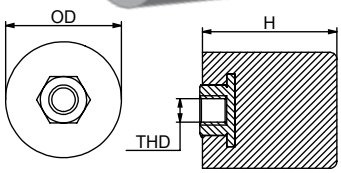
HEAT EXCHANGER ANODES

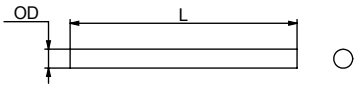


	PID	LB	KG		L	OD	THD	UPC
ZN	JDROD69DZ	4.50	2.04	mm	80	69	M16	6 28309 17277 0
				in	3.15	2.7		



	PID	LB	KG		L	OD	THD	UPC
ZN	JDROD100DZ	9.57	4.35	mm	80	100	M16	6 28309 17227 5
				in	3.15	4		

ROD STOCK ANODES



	PID	LB	KG		L	OD	UPC
ZN	JDROD25Z	2.42	1.10	mm	300	25	6 28309 17247 3
AL	JDROD25A	1.00	0.45	in	11.81	1	6 28309 17434 7
ZN	JDROD30Z	3.30	1.50	mm	300	30	6 28309 17254 1
AL	JDROD30A	1.34	0.61	in	11.81	11.81	6 28309 17397 5
ZN	JDROD40Z	5.95	2.70	mm	300	40	6 28309 17262 6
AL	JDROD40A	2.40	1.09	in	11.81	1.5	6 28309 17399 9
ZN	JDROD45Z	7.49	3.40	mm	300	45	6 28309 17264 0
AL	JDROD45A	3.04	1.38	in	11.81	1.75	6 28309 17400 2
ZN	JDROD50Z	9.24	4.20	mm	300	50	6 28309 17269 5
AL	JDROD50A	3.74	1.70	in	11.81	2	6 28309 17401 9
ZN	JDROD55Z	11.23	5.10	mm	300	55	6 28309 17272 5
AL	JDROD55A	4.54	2.06	in	11.81	2.25	6 28309 17402 6
ZN	JDROD60Z	13.44	6.10	mm	300	60	6 28309 17275 6
AL	JDROD60A	5.44	2.47	in	11.81	2.37	6 28309 17403 3
ZN	JDROD65Z	15.64	7.10	mm	300	65	6 28309 17276 3
AL	JDROD65A	6.32	2.87	in	11.81	2.5	6 28309 17404 0
ZN	JDROD70Z	18.28	8.30	mm	300	70	6 28309 17279 4
AL	JDROD70A	7.40	3.36	in	11.81	2.75	6 28309 17405 7
ZN	JDROD75Z	20.90	9.50	mm	300	75	6 28309 17280 0
AL	JDROD75A	8.48	3.85	in	11.81	3	6 28309 17406 4
ZN	JDROD80Z	24.00	10.90	mm	300	80	6 28309 17281 7
AL	JDROD80A	9.71	4.41	in	11.81	3.12	6 28309 17407 1
ZN	JDROD85Z	27.10	12.30	mm	300	85	6 28309 17284 8
AL	JDROD85A	10.97	4.98	in	11.81	3.37	6 28309 17408 8
ZN	JDROD90Z	30.18	13.70	mm	300	90	6 28309 17287 9
AL	JDROD90A	12.22	5.55	in	11.81	3.5	6 28309 17409 5

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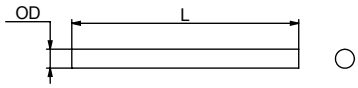
ROD STOCK ANODES



	PID	LB	KG		L	OD	UPC
ZN	**JDROD95Z**	**33.70**	15.30	mm	300	95	6 28309 17288 6
AL	**JDROD95A**	**13.63**	6.19	**in**	**11.81**	**3.75**	6 28309 17410 1
ZN	**JDROD100Z**	**37.44**	17.00	mm	300	100	6 28309 17228 2
AL	**JDROD100A**	**15.15**	6.88	**in**	**11.81**	**4**	6 28309 17631 0
ZN	**JDROD105Z**	**41.20**	18.70	mm	300	105	6 28309 17229 9
AL	**JDROD105A**	**16.67**	7.57	**in**	**11.81**	**4.12**	6 28309 17395 1
ZN	**JDROD110Z**	**45.15**	20.5	mm	300	110	6 28309 17230 5
AL	**JDROD110A**	**18.28**	8.30	**in**	**11.81**	**4.37**	6 28309 17586 3
ZN	**JDROD115Z**	**49.34**	22.40	mm	300	115	6 28309 17231 2
AL	**JDROD115A**	**20.00**	9.07	**in**	**11.81**	**4.5**	6 28309 17396 8

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BY NICK BLENKEY

ANODES: Time for a rethink on zinc?

Whether motivated by corporate good citizenship or just the need to keep a step ahead of the regulators, the marine industry is on a quest to burnish its green credentials. Sometimes the changes involved can be huge, challenging and expensive: such as bringing an exhaust gas scrubber on board, or looking to use photovoltaic cells to generate part of the vessel's electric power.

Some changes, though, may be a lot simpler. Case in point, the cathodic protection of vessel structures against corrosion. In most steel hulled vessels, the sacrificial anodes of choice have traditionally been zinc—and when it comes time to replace them, the replacements are installed in the shipyard with the owner not giving too much thought to where the shipyard sources them.

From both an environmental point of view and an economic one, this is an area of vessel maintenance that could be long overdue for a rethink. Many leading owners, including Crowley Maritime and the U.S. Navy long ago switched from using zinc anodes to aluminum—and they insist that those anodes meet a specification.

In the offshore industry, aluminum is the anode material of choice to protect pipelines and other subsea installations where long term protection against corrosion is essential.

One well-known ship operator opting for aluminum rather than zinc anodes is Crowley Maritime Corporation which maintains a fleet of 200 vessels, consisting of RO/RO vessels, LO/LO vessels, tugs and barges.

Crowley's vice president, Engineering, and a 30-year Crowley veteran, Bill Metcalf says the company has used aluminum anodes, "since before I joined the company." The reason? "It's based on utilization. The aluminum anodes will last longer in the water, they have a better performance life," says Metcalf.

For Crowley, that means that vessels can go three years between drydockings with hulls remaining protected and without anodes having to be replaced. In the case of double-hulled vessels, vessels are going for five years between drydockings with the aluminum anodes. The double hulled vessels are inspected in water by divers after two and a half years and the aluminum anodes "are doing the job."

Crowley makes use of the size of its fleet to get economies of scale when buying anodes. With some 40 drydockings a year, its purchasing department will put out a bid, based on a specification, for around 1,600 aluminum anodes at a time.

Crowley's choice of anode material is based on the fact that "from a performance view, they are a better buy," says Metcalf.

CADMIUM: NASTY HEAVY METAL

Crowley has a long history of environmental initiatives that have earned awards from several prestigious organizations, including the Chamber of Shipping of America and the U.S. Coast Guard's William Benkert Award for Environmental Excellence, among others. That makes the fact that aluminum anodes are cadmium free "a nice environmental bonus."

The environmental problem with zinc anodes is that not only is the zinc itself a pollutant that can find its way into things such as mussels, but they contain a significant percentage of cadmium. It's essential for the process by which the zinc gets sacrificed (thereby protecting the vessel structure from corrosion). So you can't have a cadmium-free zinc anode. It wouldn't be an anode, it would just be a lump of zinc.

AN ECHO OF THE TBT DEBATE

One big difference between tributlyltin (TBT)—the most effective biocide ever used in antifouling compounds which is now banned—and cadmium pollution is that antifouling was the primary source for TBT's presence in the oceans. Sacrificial anodes probably account for a tiny percentage of the cadmium in oceans and estuaries. However cadmium pollution from anodes is something that can be identified, quantified and stopped. Already, new ships wanting to have the classification notation "Green Passport," must list any cadmium or cad-

mium compounds on the ship. Interestingly, the place to list it is in the section immediately following organotins (TBT).

Because TBT was so effective, the coatings industry and shipowners fought hard to retain it. In the case of sacrificial anodes, however, the fact is that there is a better product out there that actually costs less than zinc and works better: aluminum anodes. And because the aluminum anodes weigh less than the zinc equivalents, there will be a resultant fuel savings that can be significant for larger owners deploying aluminum anodes on a fleetwide basis. Another bonus is that the lighter weight makes aluminum anodes easier to transport and install.

Hard to believe? Let's start with some basics. Anodes are not sold by weight, but by surface area. Though aluminum costs more per pound than zinc, an aluminum anode of the same size as a zinc anode will weigh about half as much and will therefore cost less. It will also have a longer effective life.

Cathodic protection specialist Paul Fleury an ex-U.S. Navy nuclear plant technician and founder of Marine Services, Earlysville, Va., says that in terms of protective power the aluminum anodes have 3.5 times the energy of zinc anodes. They also have 20 percent better self-cleaning benefits, in his experience. If aluminum is the anode of choice for steel-hulled vessels, what's the right choice for aluminum vessels?" Aluminum," says Mr. Fleury.

The metal on the vessel with the most negative potential is going to be the metal that corrodes first. The aluminum in the anode will sacrifice before the hull because it has a greater negative potential. The anode material is not just a chunk of the marine grade aluminum from which the hull is constructed. It is an alloy made to a strict specification under strictly controlled manufacturing conditions and designed to have the correct potential for anodic use.

The U.S. Navy has done very extensive work on determining the alloys, composition and, importantly, the production process to produce effective sacrificial anodes. Consequently, the Navy's MILSPEC for anodes has become "the global benchmark for shipyards and shipowners." says John Mitchell, President of leading anode manufacturer Canada Metal (Pacific), or CMP. The tables show the performance and composition specs of the Martyr I zinc and Martyr II aluminum anodes manufactured, to MILSPEC, by CMP. As the tables show, MILSPEC aluminum anodes outperform the equivalent zinc anodes on every count. And, because aluminum weighs less than zinc and what's at play here is surface area, the aluminum alloy anodes should cost less.

So, why are some zinc anodes cheaper than aluminum? One problem, says Paul Fleury, is that MILSPEC mentions the desirability of using recycled products.

"In the metals business we have a distinction between the terminologies recycled and scrap," says CMP's John Mitchell.

"I have been called out to many shipyards by anxious owners or equipment suppliers who have hauled out a vessel only to find the hull, keel coolers, shafts or propellers full of holes due to corrosion—even though there seemed to be sufficient anode protection," says Mr. Mitchell. "When testing the anodes I usually find that the alloy does not conform to the MILSPEC. Generally our tests determine that it was made with scrap aluminum or zinc!"

According to Mr. Mitchell, there are a number of anode suppliers out there who do not even have the basic alloy testing equipment and are not certified by any third party Quality Management Auditing Group. There are also reports of quality problems with some imported anodes.

"Many shipyards do not even ask for certificate of analysis or ISO-9000 (Quality Management System) certification," says Mr Mitchell. "Out of sight out of mind and the cheaper the better!"

Mr. Mitchell says the U.S. Navy's recommendation on the use of recycled material is fine, as long as that material when alloyed meets the specification.

"For instance," he says, "a good 'feed' for our cadmium-free Martyr II Aluminum anodes is recycled high voltage aluminum wire. This product in its scrap form has very little Fe and Si (iron and silicon) contamination and when properly processed with the other alloying components and then properly tested (via spark spectrometry), fits the MILSPEC recipe." That's not the case if the feed is any old discarded aluminum castings — particularly scrap anodes.

Many scrap yards are located near shipyards and will buy the yards' scrap anodes (all of which contain some form of internal steel insert).

"The scrap yard, in turn, throws these old anodes into a huge pot, melts the old anodes complete with inserts, and other debris and then pours the molten material into molds that are not properly prepared," says Mr. Mitchell, adding that the scrapyard then sells these anode-shaped pieces of remelted scrap to the shipyard. "No one is the wiser until the next haul out, when the shipyard or shipowner will point fingers at everyone except himself," concludes Mr. Mitchell.

As even a well experienced technician cannot see, taste, feel or smell if an anode will work effectively, the alloy composition and manufacturing process have to be tested and measured by competent people in order to be confirmed effective.

In other words, if it looks like an anode, feels like an anode, and smells like anode, it may not actually be an anode – especially if the price is too low. If an anode that purports to be to MILSPEC isn't supported by credible documentation, it likely doesn't meet the specification and won't perform as required. CMP's Martyr anodes are pressure diecast and manufactured to strict quality standards through an ISO 9001 Quality Management System. Every anode is UPC barcoded. In addition, each alloy is guaranteed to be manufactured to the latest US Military Alloy Specification and is chemically tested regularly in in-house labs to ensure consistency.

ALUMINUM: GREENER AND MORE BANG FOR THE BUCK

With aluminum anodes offering so many advantages, why do so many vessel owners and shipyards still opt for zinc? The answer may lie in the maritime industry's penchant for clinging to old practices. Way back when, pure aluminum anodes proved ineffective because, in most environments, pure aluminum forms a thin protective oxide with a high electrical resistance that makes it in effective as an anode. Alloying the aluminum with indium and the other components in the MILSPEC modifies the behavior of this film to create highly efficient anodes. These alloys have been around for some 60 years now, but the news appears not have filtered through to all anode buyers!

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