



CATÁLOGO



2024

Corrosão e os Anodos

Qualquer embarcação atracada ou navegando em água doce, salgada ou salobra, está sujeita à corrosão e seus efeitos geram consequências graves ocasionando elevados custos para seus proprietários.

Os metais quando imersos em um eletrólito (água do mar por exemplo) têm diferentes potenciais eletroquímicos quando em contato um com o outro, e formam uma célula galvânica. O metal com menor potencial na célula galvânica (menos nobre) será então corroído e o com maior potencial (mais nobre) será protegido, tomemos como exemplo prático o hélice de bronze e o eixo de aço inox mergulhados na água do mar, como o bronze do hélice é menos nobre, ele será corroído e o eixo de aço inox estará protegido.

Caso cogite proteger ambos os metais (tanto o bronze do hélice como o eixo de inox), é preciso conectar um terceiro metal que é mais ativo (menos nobre) do que os dois primeiros. O metal mais ativo (zinco por exemplo) torna-se o anodo para os outros e é sacrificado pela corrosão, protegendo o catodo (o hélice e o eixo de inox), então temos o anodo de sacrifício. Para uso prático, recorre-se a série galvânica de materiais metálicos em relação a água do mar, que constituem a ordenação dos metais segundo seu comportamento neste meio e que mostramos a seguir na figura 1:

A primeira propriedade a ser considerada é o seu potencial elétrico:

Magnésio gera -1,6V

Liga de alumínio/índio gera -1,1V Zinco gera -1,05V Para que se obtenha maior proteção, é necessário que se consiga a maior diferença de tensão praticável entre o anodo de sacrifício e o metal a ser protegido.

Por exemplo:

O zinco é usado para proteger o hélice de bronze, temos o zinco = -1,05V e o bronze = -0,3V, então temos $-1,05 - (-0,3) = -0,75V$.



(- 1,6V)	Magnésio
(- 1,5V)	
(- 1,4V)	
(- 1,3V)	
(- 1,2V)	
(- 1,1V)	Liga de Alumínio/ Índio
(- 1,05V)	Liga de Zinco
(- 0,9V)	Alumínio
(- 0,8V)	
(- 0,7V)	Cádmio
(- 0,6V)	Aço de Baixo Carbono
(- 0,5V)	Aço inox 304 e 316 (ativo)
(- 0,4V)	Bronze alumínio
(- 0,3V)	Bronze naval
(- 0,2V)	Latão
(- 0,1V)	
(0,0V)	Aço inox 304 e 316 (passivo)
(+0,1V)	Prata
(+0,2V)	Ouro
(+0,3V)	Grafite

Usando a liga alumínio/índio para proteger o bronze, temos a liga alumínio/índio = -1,10V e o bronze = -0,3V, então temos $-1,10 - (-0,3) = -0,8V$.

Pelo mostrado acima a liga alumínio/índio oferece maior proteção para o hélice.

A segunda propriedade mais importante é a capacidade de corrente do material do anodo.

O anodo gera uma diferença de voltagem e este conduz uma corrente entre o anodo e o metal protegido através da água. Então quanto maior capacidade, mais tempo vai continuar protegendo. Aliás, para um anodo em particular, a taxa do fluxo de corrente depende da área de superfície do anodo e a longevidade depende da massa(tamanho) do anodo. Para o mesmo tamanho do anodo, as capacidades relativas em dias são:

Zinco = 100

Magnésio = 30.

Alumínio = 130/150 (depende do fabricante).

Resumindo, se você utilizar um anodo de magnésio no lugar do anodo de zinco, ele só iria durar apenas 30 dias. Caso utilize o anodo de alumínio ele iria durar entre 130 e 150 dias. A terceira propriedade é a qualidade da liga do anodo. Um cuidado que você deve ter é com a qualidade dos metais utilizados, não é qualquer zinco ou alumínio que vai funcionar. Existem anodos de qualidade questionável. É importante assegurar-se de que os anodos adquiridos são fabricados dentro das normas existentes.

As normas que a **ZIGMO** utiliza são:

Zinco: ABNT-NBR 9358 (BRASIL) / MIL-A-18001K (USA);

Alumínio: ABNT-NBR 10387 (BRASIL) / MIL-A-24779(SH) (USA);

Magnésio: ABNT-NBR 16460 (BRASIL) / MIL-A-21412(SH)(USA).

Selecione o anodo correto para as águas que sua embarcação navega

Nem todos os anodos são adequados para qualquer ambiente aquático, por exemplo, a superfície de um anodo de zinco quando fica em água doce ou salobra durante algum tempo, torna-se coberta por uma crosta branca formada por óxidos que efetivamente impede o anodo de continuar funcionando, mesmo quando retorna para água salgada.

Já o anodo de alumínio vai continuar operando de forma eficaz em estuários de rios e em outras áreas de água salobra indefinidamente. As conseqüências dessa passividade do anodo é que o próximo item mais anódico dentro da embarcação vai começar a corroer.

O proprietário da embarcação deve saber qual o material do anodo adequado ao ambiente onde navega.

Os anodos devem ser selecionados com base na tabela mostrada à seguir:

LIGA	ÁGUA DOCE	ÁGUA SALOBRA	ÁGUA SALGADA
Zinco	∅	∅	✓
Alumínio	✓	✓	✓
Magnésio	✓	∅	∅

Algumas embarcações movimentam-se durante algum tempo entre água doce e água salgada, outras estão atracadas dentro de marinas e atrás de barreiras de marés onde a água é susceptível de ser salobra ou mesmo praticamente doce. Os proprietários devem estar conscientes dos efeitos que isso pode ter sobre sua embarcação e utilizar anodo correto para evitar a corrosão.

Por isso é muito importante verificar os anodos após quaisquer viagens em água doce ou água salobra, se necessário, limpar ou trocar o anodo.

Os anodos de magnésio são mais eficientes que os de zinco e os de alumínio na água doce, uma vez que a água doce é muito menos condutora que a água salgada, os anodos de magnésio são a melhor escolha, porque eles são mais ativos (menos nobre) que os de zinco e os de alumínio, protegendo assim, sua embarcação de maneira mais eficaz. CUIDADO, não use anodos de magnésio em qualquer aplicação que não seja água doce, porque eles vão corroer rapidamente, expondo sua embarcação e o seu motor a possíveis danos.

Anodo de alumínio fornece maior proteção e dura mais tempo que o anodo de zinco. Ele continuará a trabalhar em água doce e é seguro para uso em água salgada e água salobra, ou seja, o anodo de alumínio é seguro em todas as aplicações.

Rabetas e motores de popa requerem um pouco mais de cuidado. Os anodos de sacrifício têm uma tarefa mais difícil, uma vez que tem que proteger o que é uma estrutura de alumínio muito ativa. Inicialmente estes anodos para estas unidades eram de zinco, mas em resposta a problemas de corrosão, Mercury e Johnson/Evinrude/OMC, começaram a vender anodos de alumínio no início dos anos 90. Outros fabricantes passaram também a utilizar os anodos de alumínio. O pequeno aumento de voltagem de proteção ajuda a garantir que a sua rabeta ou seu motor fiquem protegidos.

Uma questão que surge é a dúvida de como um anodo de alumínio pode proteger a rabeta e o motor que são fabricados em alumínio. A proteção se dá porque os anodos de alumínio são uma liga de alumínio, zinco e índio. É como comparar aço comum e aço inoxidável, eles tem propriedades muito diferentes. O zinco e o índio tornam o metal mais ativo e impedem a formação da película de óxidos no alumínio, fazendo que o anodo continue a funcionar normalmente.

Então diante do exposto acima, podemos enumerar algumas vantagens de se usar os anodos de alumínio, tais como:

1. Performance melhor que o tradicional anodo de zinco para água salgada.
2. Dura até 50% mais do que o anodo de zinco tradicional.
3. Pesa quase a metade do que o anodo de zinco tradicional.
4. Atende tanto as normas da ABNT(Brasil) e da U S MILITARY SPECIFICATION(USA).
5. É o único anodo eficaz em todos tipos de água.
6. Resulta em considerável economia de custos em comparação com os anodos de zinco tradicionais.
7. A MAIS IMPORTANTE DE TODAS, CONTÉM 0% DE CÁDMIO, METAL ALTAMENTE TÓXICO ENCONTRADO NOS TRADICIONAIS ANODOS DE ZINCO, TORNANDO-SE AMIGO DO MEIO AMBIENTE.

Assim o anodo de alumínio possui características técnicas, econômicas e ambientais espetaculares que estamos colocando à disposição do mercado consumidor para o adequado, eficiente e econômico combate a corrosão.

Ligas para fabricação de anodos de sacrifício

A **ZIGMO** fabrica três tipos de ligas para os três ambientes de água, ou seja, água doce, água salobra e água salgada.

Cada liga utilizada é garantia de ser fabricada na mais recente especificação da ASSOCIAÇÃO BRASILEIRA DE NORMAS TÉCNICAS-ABNT e da US MILITARY ALLOY SPECIFICATION (USA), a composição química é analisada regularmente em laboratório para garantir a qualidade da mesma, pois pequenas quantidades de outros elementos atuam como impurezas fazendo com que o anodo passive e deixe de proteger contra a corrosão, causando sérios danos e elevados custos para o proprietário. Então, nem todos os anodos são produzidos da mesma maneira, tenha certeza de adquirir um genuíno anodo fabricado pela **ZIGMO**.

LIGAS DE ZINCO

Normas: ABNT- NBR 9358 (BRASIL) / US MIL-A-18001-K (USA)

Cobre	0,005% máximo
Ferro	0,005% máximo
Chumbo	0,006% máximo
Cádmio	0,025% até 0,07%
Alumínio	0,1% até 0,5%
Zinco	restante



Os metais aditivos alumínio e cádmio, são usados para produzir um grão mais fino na estrutura do metal fundido, evitando também a polarização anódica causada por formações contínuas, com isso conseguimos uma eficiência prática na capacidade de intensidade de corrente mais elevada, além de neutralizar a ação do ferro residual existente no zinco SHG (Special High Grade) utilizado pela **ZIGMO**.

LIGAS DE ALUMÍNIO

Normas: ABNT-NBR 10387 (BRASIL) / US MIL-A-24779(SH) (USA)

Cobre	0,004% máximo
Ferro	0,09% máximo
Índio	0,014% até 0,02%
Silício	0,08% até 0,2%
Zinco	4,0% até 6,0%
Alumínio	restante



Os metais aditivos índio e zinco devem inibir a formação da película de óxido, que é um fator indispensável ao uso do alumínio marcadamente menos nobre que o magnésio e o zinco. Esta película é uma qualidade desejável e vitalmente importante para a manufatura de artigos de alumínio, mas ela limita o uso do metal como anodo. Ao usar o índio e o zinco conseguimos uma eficiência na prática na capacidade de corrente de até 95%.

LIGAS DE MAGNÉSIO

Norma: ABNT-NBR 16460 (BRASIL) / US MIL-A-21412(SH) (USA)

Cobre	0,10% máximo	Zinco	2,0% até 4,0%
Ferro	0,003% máximo	Alumínio	5,0% até 7,0%
Níquel	0,03% máximo	Manganês	0,15% até 0,55%
Silício	0,30% máximo	Magnésio	restante

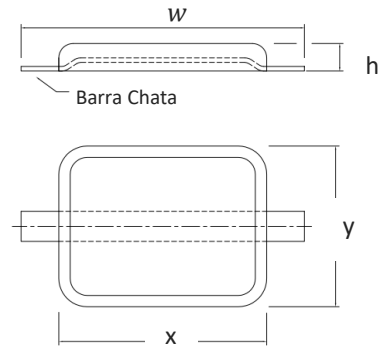
A Zigmo é a

maior fabricante

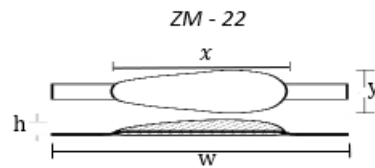
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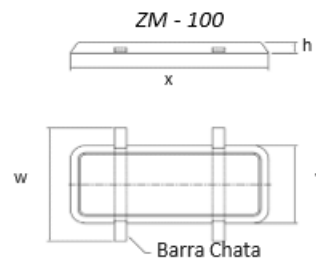
ANODO APCE/ZM



	Ref.	R\$	Kg	Un.	x	y	h	w	Barra Chata
Zn	ZMZM6Zn	39,00	0,650	mm	100	46	21	148	12,7 x 3,18
Al	ZMZM6Al	35,00	0,242	in.	3,93"	1,81"	0,83"	5,83"	12/7" x 1/8"
Zn	ZMZM10Zn	62,00	1,015	mm	115	75	20	200	19,05 x 4,76
Al	ZMZM10Al	60,00	0,406	in.	4,52"	2,95"	0,78"	7,87"	3/4" x 3/16"
Zn	ZMZM25Zn	160,00	2,380	mm	215	68	31	315	22,23 x 4,76
Al	ZMZM25Al	150,00	0,952	in.	8,46"	2,68"	1,22"	12,4"	7/8" x 3/16"
Zn	ZMZM35Zn	202,00	3,545	mm	220	100	28	305	19,05 x 4,76
Al	ZMZM35Al	192,00	1,418	in.	8,66"	3,94"	1,1"	12"	3/4" x 3/16"
Zn	ZMZM60Zn	243,00	6,045	mm	220	158	30	290	19,05 x 4,76
Al	ZMZM60Al	240,00	2,418	in.	8,66"	6,22"	1,18"	11,41"	3/4" x 3/16"

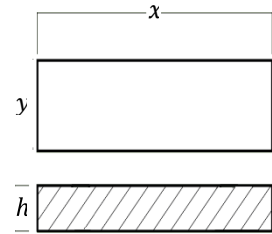


Zn	ZMZM22Zn	132,00	2,280	mm	220	73	30	305	19,05 x 4,76
Al	ZMZM22Al	130,00	0,912	in.	8,66"	2,87"	1,18"	12"	3/4" x 3/16"



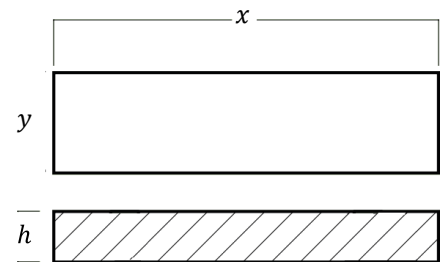
Zn	ZMZM100Zn	574,00	10,220	mm	295	150	41	250	31,75 x 4,76
Al	ZMZM100Al	537,00	4,080	in.	11,6"	5,9"	1,18"	9,84"	1.1/4 x 3/16"

ANODO OCEANIC 32



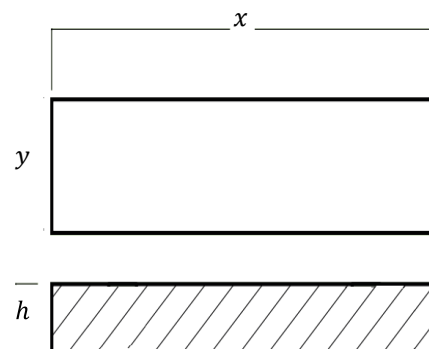
	Ref.	R\$	Kg	Un.	<i>x</i>	<i>y</i>	<i>h</i>
Zn	ZMO32Zn	79,00	1,460	mm in.	150	75	20
Al	ZMO32Al	76,00	0,584		5,90"	2,95"	0,78"

ANODO OCEANIC 40



	Ref.	R\$	Kg	Un.	<i>x</i>	<i>y</i>	<i>h</i>
Zn	ZMO40Zn	160,00	3,190	mm in.	245	75	25
Al	ZMO40Al	154,00	1,276		9,64"	2,95"	0,98"

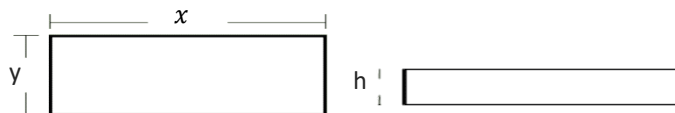
ANODO PLACA



	Ref.	R\$	Kg	Un.	x	y	h
Zn	ZM12,5x5x1,5Zn	58,00	0,675	mm	125	50	15
Al	ZM12,5x5x1,5Al	55,00	0,270	in.	4,92"	1,96"	0,59"
Zn	ZM13x8Zn	82,00	1,350	mm	130	80	18
Al	ZM13x8Al	73,00	0,550	in.	5,11"	3,14"	0,71"
Zn	ZM140x43X16Zn	40,00	1,451	mm	140	48	30
Al	ZM140x43X16Al	35,00	0,580	in.	5,51"	1,88"	1,18"
Zn	ZM148x48X30Zn	89,00	1,534	mm	148	48	30
Al	ZM148x48X30Al	85,00	0,614	in.	5,82"	1,88"	1,18"
Zn	ZM150X100X50Zn	198,00	5,400	mm	150	100	50
Al	ZM150X100X50Al	187,00	2,160	in.	5,90"	3,93"	1,96"
Zn	ZM150X68X19Zn	85,00	1,395	mm	150	68	19
Al	ZM150X68X19Al	81,00	0,560	in.	5,90"	2,67"	0,75"
Zn	ZM150x75x40Zn	197,00	3,240	mm	150	75	40
Al	ZM150x75x40Al	188,00	1,296	in.	5,90"	2,95"	1,57"
Zn	ZM200X80X20Zn	110,00	2,304	mm	200	80	20
Al	ZM200X80X20Al	99,00	0,921	in.	7,87"	3,14"	0,79"
Zn	ZM220x60x20Zn	110,00	1,900	mm	220	60	20
Al	ZM220x60x20Al	99,00	0,760	in.	8,66"	2,36"	0,79"
Zn	ZM295x145X23Zn	327,00	7,700	mm	295	145	25
Al	ZM295x145X23Al	242,00	3,080	in.	11,61"	5,70"	0,98"
Zn	ZM300X100X25Zn	313,00	5,400	mm	300	100	25
Al	ZM300X100X25Al	242,00	2,160	in.	11,81"	3,93"	0,98"
Zn	ZM300x150x30Zn	327,00	9,720	mm	300	150	30
Al	ZM300x150x30Al	242,00	3,800	in.	11,81"	5,90"	1,18"
Zn	ZM300x75X20Zn	189,00	2,900	mm	300	75	18
Al	ZM300x75X20Al	90,00	1,160	in.	11,81"	2,95"	0,71"
Zn	ZM340x130X25Zn	461,00	9,100	mm	340	130	25
Al	ZM340x130X25Al	210,00	3,670	in.	13,38"	5,11"	0,98"
Zn	ZM385x165X25Zn	693,00	11,400	mm	385	165	25
Al	ZM385x165X25Al	303,00	4,500	in.	15,15"	6,49"	0,98"
Zn	ZM10003015Zn	197,00	3,240	mm	1000	30	15
Al	ZM10003015Al	95,00	1,290	in.	39,37"	1,18"	0,59"

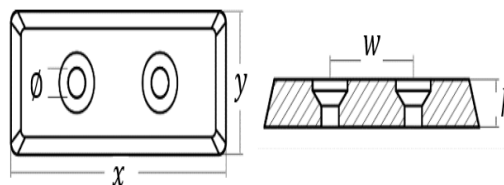
ANODO MARES 30/45

Lemes:



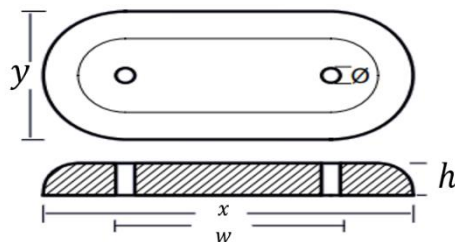
	Ref.	R\$	Kg	Un.	x	y	h
Zn	ZMM30LZn	46,00	0,680	mm	80	69	15
Al	ZMM30LAl	43,00	0,480	In.	3,14"	2,71"	0,59"
Zn	ZMM45LZn	96,00	1,200	mm	207	69	15
Al	ZMM45LAl	90,00	0,480	In.	8,14"	2,71"	0,59"

Cascos:



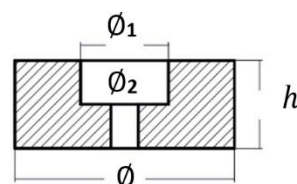
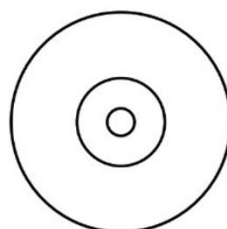
	Ref.	R\$	Kg	Un.	x	y	w	Ø	h
Zn	ZMM30CZn	52,00	0,650	mm	100	50	47	25	23
Al	ZMM30CAI	48,00	0,260	In.	3,93"	1,96"	1,85"	0,98"	0,90"
Zn	ZMM45CZn	104,00	1,700	mm	154	102	75	25	17
Al	ZMM45CAI	99,00	0,680	In.	6,06"	4,01"	2,95"	0,98"	0,66"

ANODO PLACA DE POPA FERRETTI 55



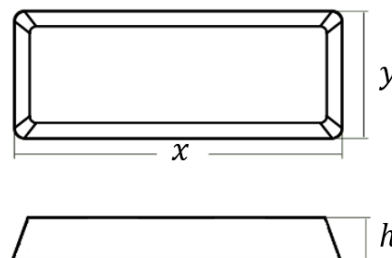
	Ref.	R\$	Kg	Un.	x	y	h	Ø	w
Zn	ZMFP55Zn	97,00	1,720	mm	205	65	30	13	105
Al	ZMFP55Al	95,00	0,688	in.	8,07"	2,56"	1,18"	0,51"	3,94"

ANODO CASCO AZIMUT 58/60/62



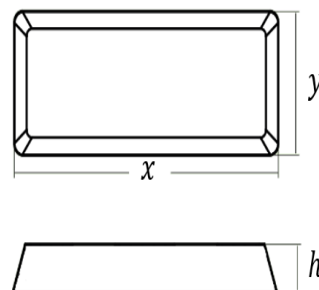
	Ref.	R\$	Kg	Un.	Ø	Ø ₁	Ø ₂	h
Zn	ZMAC60Zn	247,00	4,455	mm	123	44	16	53
Al	ZMAC60Al	247,00	1,178	in.	4,85"	1,73"	0,63"	2,08"

ANODO PLACA PHANTOM TRAPEZOIDAL



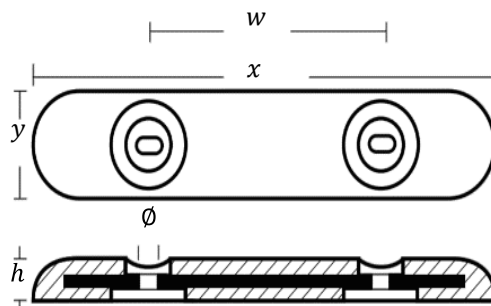
	Ref.	R\$	Kg	Un.	x	y	h
Zn	ZMPHTZn	45,00	0,470	mm	125	43	14
Al	ZMPHTAl	43,00	0,188	in.	4,92"	1,69"	0,55"

ANODO BLADE



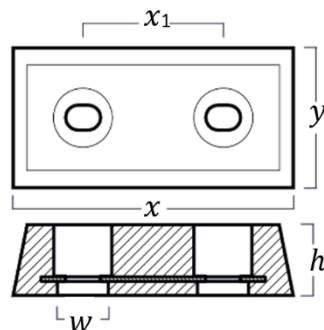
	Ref.	R\$	Kg	Un.	x	y	h
Zn	ZMBGZn	39,00	0,700	mm	122	40	20
Al	ZMBGAl	36,00	0,281	in.	4,80"	1,57"	0,78"
	Ref.		Kg	Un.	x	y	h
Zn	ZMBPZn	29,00	0,445	mm	81	40	20
Al	ZMBPAl	28,00	0,178	in.	3,19"	1,57"	0,78"

ANODO PRINCESS/FAIRLINE



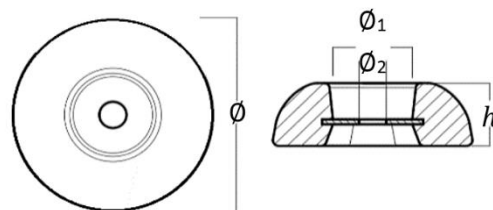
	Ref.	R\$	Kg	Un.	x	y	w	h	\emptyset
Zn	ZMCFZn	944,00	14,140	mm	450	100	230	65	30x18
Al	ZMCFAl	626,00	5,656	in.	17,7"	3,93"	9,05"	2,55"	1,18" x 0,70"

ANODO PLATAFORMA DE POPA PRINCESS



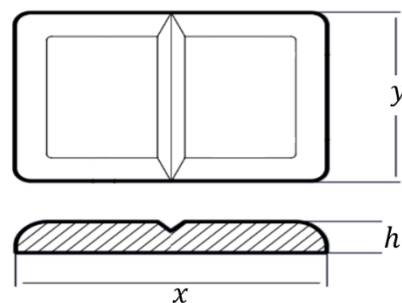
	Ref.	R\$	Kg	Un.	x	y	x_1	w	h
Zn	ZMCPFZn	200,00	5,075	mm	200	100	100	30x18	50
Al	ZMCPFAl	197,00	2,030	in.	7,87"	3,94"	3,94"	1,18" x 0,70"	1,97"

ANODO FLAP PRINCESS



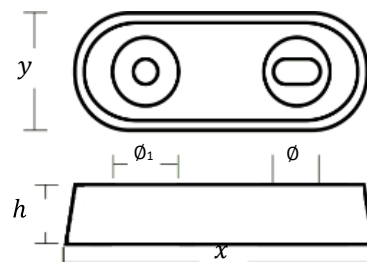
	Ref.	R\$	Kg	Un.	<i>h</i>	\varnothing	\varnothing_1	\varnothing_2
Zn	ZMFPZn	135,00	2,925	mm	42	150	39	16
Al	ZMFPAI	133,00	1,170	in.	1,65"	5,90"	1,53"	0,62"

ANODO PLACA DE LEME



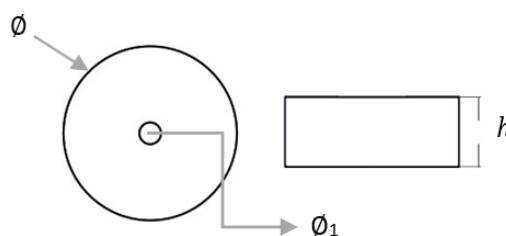
	Ref.	R\$	Kg	Un.	<i>x</i>	<i>y</i>	<i>h</i>
Zn	ZMPLZn	45,00	0,750	mm	122	78	12
Al	ZMPLAI	43,00	0,300	in.	4,80"	3,07"	0,47"

ANODO PLATAFORMA DE POPA INTERMARINE



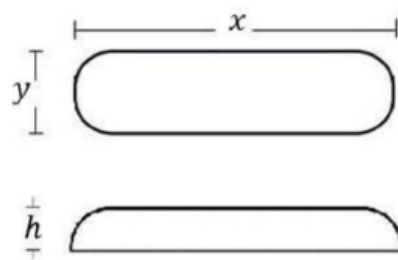
	Ref.	R\$	Kg	Un.	x	y	h	Ø	Ø ₁
Zn	ZMPPIZn	67,00	0,920	mm	150	60	25	11	11X15
Al	ZMPPIAL	65,00	0,360	in.	5,91"	2,36"	0,98"	0,43"	0,43"X 0,59"

ANODO CASCO INTERMARINE



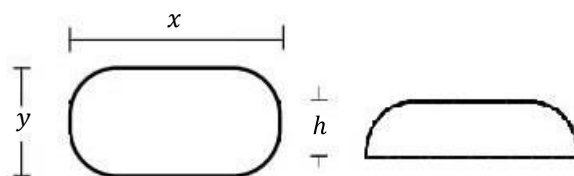
	Ref.	R\$	Kg	Un.	Ø	Ø ₁	h
Zn	ZMCIZn	288,00	4,465	mm	131	14	50
Al	ZMCIAL	288,00	1,786	in.	5,16"	0,55"	1,97"

ANODO CASCO OVALADO



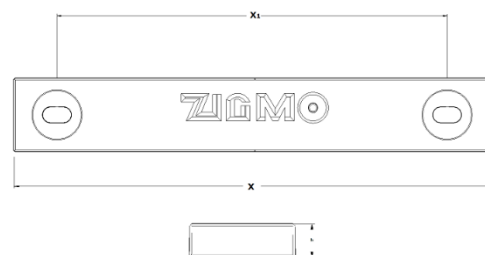
	Ref.	R\$	Kg	Un.	x	y	h
Zn	ZMCOZn	187,00	2,462	mm	200	87	29
Al	ZMCOAl	174,00	0,985	in.	7,87"	3,42"	1,14"

ANODO CASCO/FLAP/LEME



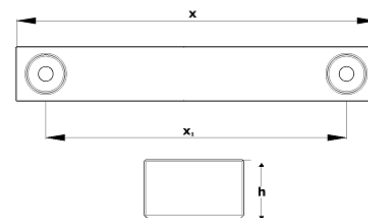
	Ref.	R\$	Kg	Un.	x	y	h
Zn	ZMCZn	58,00	0,980	mm	111	75	20
Al	ZMCAI	57,00	0,392	in.	4,37"	2,95"	0,79"

ANODO VELEIRO FAST 345/360



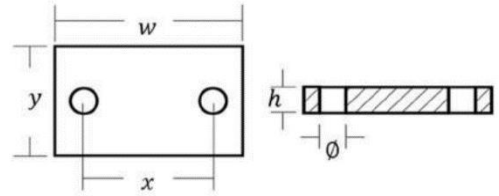
	Ref.	R\$	Kg	Un.	x	x_1	y	h
Zn	ZMVF345Zn	90,00	1,400	mm	291	240	44	15
Al	ZMVF345Al	87,00	0,560	in.	11,45"	9,45"	1,73"	0,59"

ANODO VELEIRO FAST 395



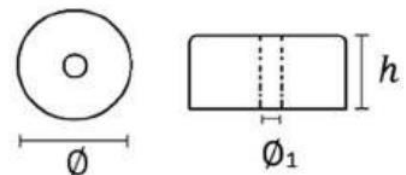
	Ref.	R\$	Kg	Un.	x	x_1	y	h
Zn	ZMVF395Zn	106,00	1,400	mm	284	238	43	27
Al	ZMVF395Al	105,00	0,560	in.	11,45"	9,37"	1,70"	1,09"

ANODO FOCKER CASCO RETANGULAR



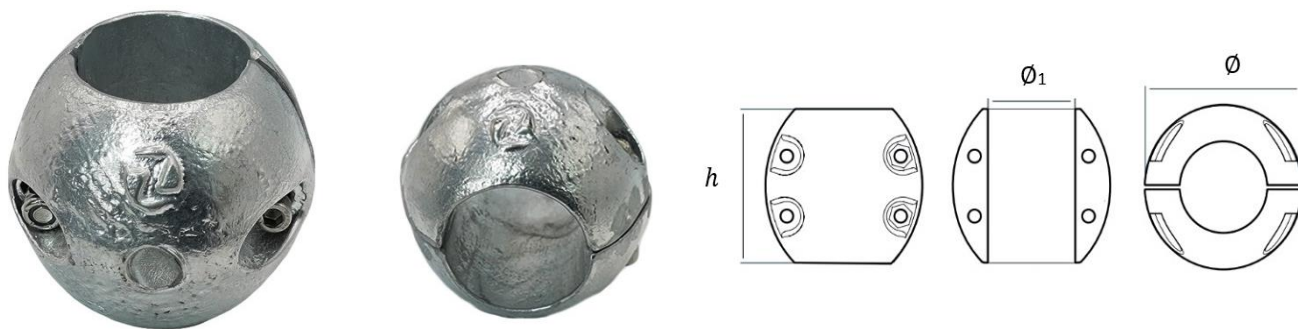
	Ref.	R\$	Kg	Un.	w	y	x	Ø	h
Zn	ZMFMZRzn	63,00	0,770	mm	110	66	55	14	16
Al	ZMFMRAI	63,00	0,308	in.	4,33"	2,56"	2,16"	0,55"	0,63"

ANODO FOCKER CASCO CIRCULAR



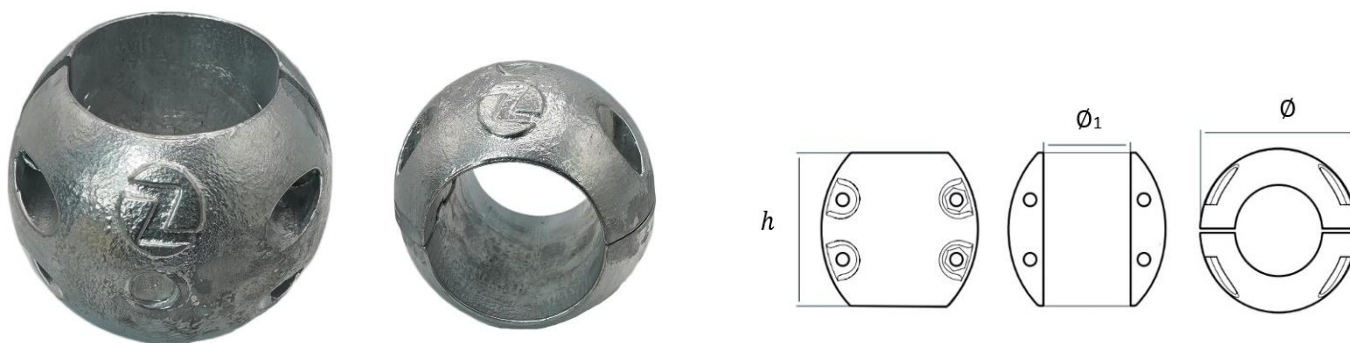
	Ref.	R\$	Kg	Un.	Ø	Ø ₁	h
Zn	ZMFMCZn	49,00	0,440	mm	60	11	23
Al	ZMFMCAl	49,00	0,176	in.	2,36"	0,43"	0,91"

ANODO DE EIXO



	Ref.	R\$	Kg	Un.	Ø ₁	Ø	h
Zn	ZME3/4Zn	42,00	0,510	In.	¾"	55 mm	54 mm
Al	ZME3/4Al	41,00	0,204				
Zn	ZME7/8Zn	48,00	0,510	In.	7/8"	55 mm	54 mm
Al	ZME7/8Al	46,00	0,204				
Zn	ZME1Zn	31,00	0,420	In.	1"	56 mm	55 mm
Al	ZME1Al	29,00	0,168				
Zn	ZME125Zn	40,00	0,560	in.	1 ¼"	63 mm	60 mm
Al	ZME125Al	39,00	0,224				
Zn	ZME15Zn	57,00	0,770	in.	1 ½"	70 mm	67 mm
Al	ZME15Al	55,00	0,308				
Zn	ZME175Zn	71,00	1,020	in.	1 ¾"	81 mm	67 mm
Al	ZME175Al	68,00	0,408				
Zn	ZME2Zn	92,00	1,410	in.	2"	90 mm	73 mm
Al	ZME2Al	90,00	0,564				
Zn	ZME218Zn	108,00	1,410	in.	2 1/8"	90 mm	73 mm
Al	ZME218Al	106,00	0,564				
Zn	ZME225Zn	113,00	1,200	in.	2 ¼"	107 mm	73 mm
Al	ZME225Al	100,00	0,480				
Zn	ZME25Zn	133,00	2,400	in.	2 ½"	107 mm	93 mm
Al	ZME25Al	130,00	0,940				
Zn	ZME275Zn	247,00	3,200	in.	2 ¾"	112 mm	93 mm
Al	ZME275Al	240,00	1,250				
Zn	ZME3Zn	247,00	3,260	in.	3"	122 mm	96 mm
Al	ZME3Al	241,00	1,300				
Zn	ZME325Zn	447,00	5,000	in.	3 ¼"	143 mm	95 mm
Al	ZME325Al	447,00	2,000				
Zn	ZME3-5Zn	447,00	3,080	in.	3 ½"	130 mm	95 mm
Al	ZME3-5Al	447,00	1,232				
Zn	ZME4Zn	583,00	5,200	in.	4"	101,6 mm	120 mm
Al	ZME4Al	583,00	2,080				
Zn	ZME4-5Zn	660,00	5,200	in.	4 ½"	114,3 mm	120 mm
Al	ZME4-5Al	660,00	2,080				

ANODO DE EIXO

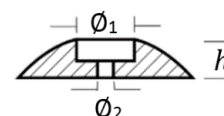
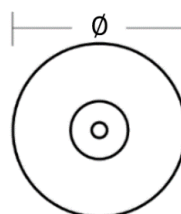


	Ref.	R\$	Kg	Un.Ø ₁	Ø ₁	Ø	h
Zn	ZME30Zn	50,00	0,600	mm	30 mm	56 mm	55 mm
Al	ZME30Al	48,00	0,240				
Zn	ZME35MMZn	54,00	0,480	mm	35 mm	56 mm	60 mm
Al	ZME35MMAI	52,00	0,192				
Zn	ZME45Zn	69,00	1,020	mm	45 mm	81 mm	67 mm
Al	ZME45Al	67,00	0,408				
Zn	ZME50Zn	77,00	1,410	mm	50 mm	90 mm	73 mm
Al	ZME50Al	76,00	0,564				
Zn	ZME54Zn	108,00	1,410	mm	54 mm	90 mm	73 mm
Al	ZME54Al	106,00	0,564				
Zn	ZME60Zn	136,00	2,500	mm	60 mm	107 mm	93 mm
Al	ZME60Al	136,00	1,000				
Zn	ZME65Zn	155,00	2,200	mm	65 mm	107 mm	93 mm
Al	ZME65Al	153,00	0,880				
Zn	ZME70Zn	269,00	3,260	mm	70 mm	122 mm	96 mm
Al	ZME70Al	269,00	1,304				
Zn	ZME75Zn	269,00	3,290	mm	75 mm	122 mm	96 mm
Al	ZME75Al	269,00	1,320				
Zn	ZME80Zn	447,00	5,310	mm	80 mm	150 mm	96 mm
Al	ZME80Al	395,00	2,124				
Zn	ZME85Zn	447,00	5,010	mm	85 mm	150 mm	96 mm
Al	ZME85Al	395,00	2,024				
Zn	ZME90Zn	447,00	4,910	mm	90 mm	150 mm	96 mm
Al	ZME90Al	395,00	1,924				

Produzimos todas as medidas de anodos de eixos.

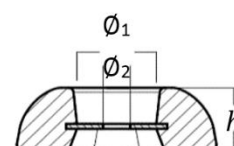
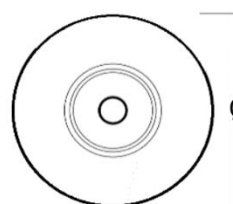
Caso não tenha no catálogo, nos solicite uma cotação com o tamanho desejado!

ANODO DE FLAP



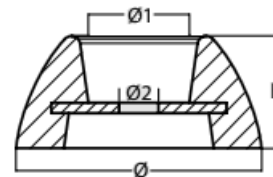
	Ref.	R\$	Kg	Un.	Ø	Ø ₁	Ø ₂	h
Zn	ZMFPZn	24,00	0,140	mm	50	21	7,5	16
Al	ZMFPAI	23,00	0,070	in.	1,97"	0,83"	0,30"	0,63"
Zn	ZMFMZn	32,00	0,300	mm	70	22	8,5	17
Al	ZMFMAI	29,00	0,145	in.	2,76"	0,87"	0,33"	0,67"
Zn	ZMFGZn	58,00	0,900	mm	110	31	12	22
Al	ZMFGAI	58,00	0,420	in.	4,33"	1,22"	0,47"	0,87"
Zn	ZMF80Zn	58,00	1,050	mm	100	36	10	30
Al	ZMF80AI	58,00	0,420	in.	3,94"	1,41"	0,39"	1,18"
Zn	ZMF100Zn	56,00	0,780	mm	100	31	12	22
Al	ZMF100AI	56,00	0,312	in.	3,94"	1,22"	0,47"	0,86"
Zn	ZMF125Zn	70,00	1,170	mm	122	31	10	23
Al	ZMF125AI	70,00	0,468	in.	4,80"	1,22"	0,39"	0,90"
Zn	ZMF125FZn	70,00	1,170	mm	122	31	10	23
Al	ZMF125FAI	70,00	0,468	in.	4,80"	1,22"	0,39"	0,90"

ANODO FLAP MEIA LUA/ CASCO SESSA



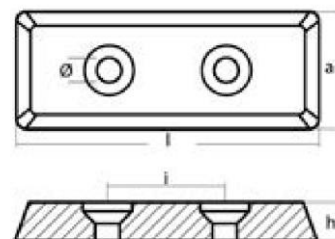
	Ref.	R\$	Kg	Un.	h	Ø	Ø ₁	Ø ₂
Zn	ZMMLFZn	99,00	0,920	mm	30	110	33	14
Al	ZMMLFAI	97,00	0,368	in.	1,18"	4,33"	1,30"	0,55"

ANODO FLAP ALTO



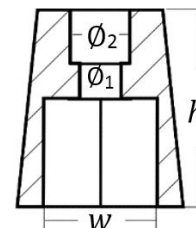
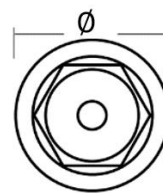
	Ref.	R\$	Kg	Un.	<i>h</i>	\emptyset	\emptyset_1	\emptyset_2
Zn	ZMFAZn	41,00	0,437	mm	25	70	33	9
Al	ZMFAAl	37,00	0,175	in.	0,98"	2,75"	1,30"	0,35"

ANODO FLAP INTERMARINE



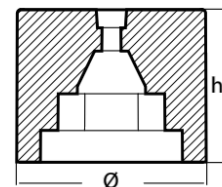
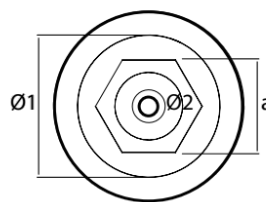
	Ref.	R\$	Kg	Un.	<i>h</i>	<i>a</i>	\emptyset	<i>i</i>	<i>I</i>
Zn	ZMFIZn	44,00	0,450	mm	23	43	10	50	103
Al	ZMFIAI	44,00	0,180	in.	0,90"	1,69"	0,39"	1,96"	4,05"

ANODO PONTA DE EIXO AZIMUT



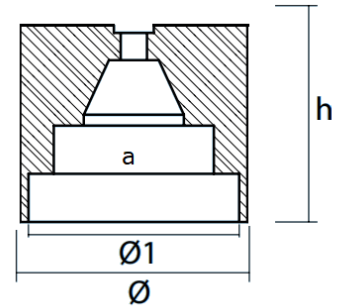
	Ref.	R\$	Kg	Un.	Ø	Ø ₁	Ø ₂	w	h
Zn	ZMA40Zn	150,00	0,460	mm in.	51 2.01"	9 0.35"	15 0.59"	36 1.42"	67 2.64"
Zn	ZMA45Zn	190,00	0,775	mm in.	61 2.40"	11 0.43"	22 0,87"	41 1.61"	76 2,99"
Zn	ZMA50Zn	223,00	1,010	mm in.	72 2,83"	11 0,43"	21 0,83"	46 1,81"	84 3,31"
Zn	ZM50.2Zn	223,00		mm in.	87 3,42"			67 2,63"	75 2,95"
Zn	ZMA60Zn	266,00	1,655	mm in.	82 3,23"	11 0,43"	21 0,83"	55 2,17"	98 3,86"
Zn	ZMA70/80/83Zn	336,00	2,800	mm in.	100 3,93"	121 0,47"	16 0,23"	60 2,36"	100 3,93"

ANODO PONTA DE EIXO FERRETTI 155



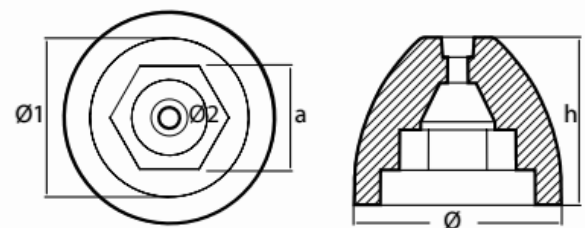
	Ref.	R\$	Kg	Un.	a	h	Ø	Ø ₁	Ø ₂
Zn	ZMF155Zn	942,00	9,200	mm	75	116	143	125	15,5
Al	ZMF155Al	942,00	3,680	in.	2,95"	4,46"	6,10"	4,92"	0,61"

ANODO PONTA DE EIXO FERRETTI 155 CIRCULAR



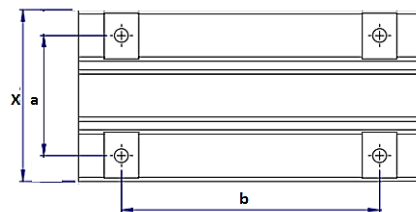
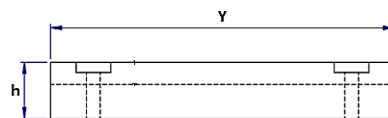
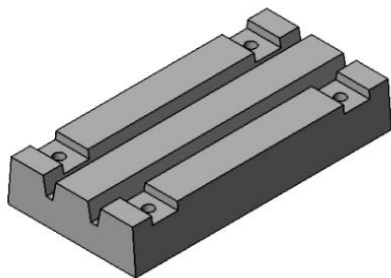
	Ref.	R\$	Kg	Un.	a	h	\varnothing	\varnothing_1	\varnothing_2
Zn	ZMF155Zn	942,00		mm	100	116	143	125	15,5
Al	ZMF155Al	942,00		in.	3,15"	4,46"	6,10"	4,92"	0,61"

ANODO PONTA DE EIXO FERRETTI 155 HYDRO



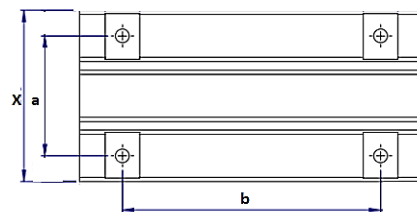
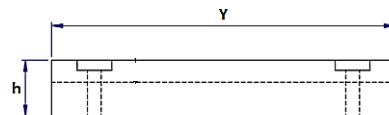
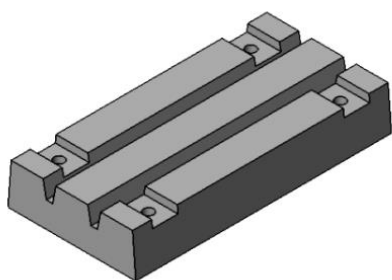
	Ref.	R\$	Kg	Un.	a	h	\varnothing	\varnothing_1	\varnothing_2
Zn	ZMF155HZn	1075,00		mm	75	125	155	116	14,5
Al	ZMF155HAl	1075,00		in.	2,95"	4,92"	6,10"	4,57"	0,57"

ANODO FERRETTI LIFT H+B 550



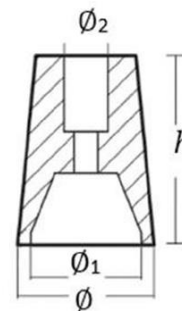
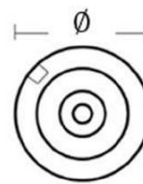
	Ref.	R\$	Kg	Un.	a	h	b	x	y
Zn	ZMHB5505Zn	243,00	3,960	mm in.	70 2,75"	33 1,29"	150 5,90"	100 3,15"	200 7,87"

ANODO FERRETTI LIFT H+B 850



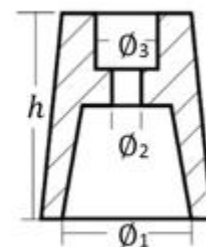
	Ref.	R\$	Kg	Un.	a	h	b	x	y
Zn	ZMHB8505Zn	325,00	5,600	mm in.	82 3,22"	33 1,29"	150 5,90"	115 4,52"	230 9,05"

ANODO PONTA DE EIXO FERRETTI



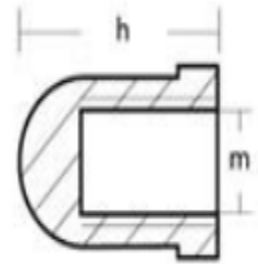
	Ref.	R\$	Kg	Un.	Ø	Ø ₁	Ø ₂	h
ZN	ZMF40Zn	153,00	0,585	mm in.	51 2"	35 1,37"	17 0,67"	67 2,63"
ZN	ZMF45Zn	167,00	0,530	mm in.	49 1,93"	36 1,42"	17 0,67"	63 2,48"
ZN	ZMF53Zn	182,00	0,895	mm in.	57 2,24"	40 1,57"	18 0,70"	77 3,03"
ZN	ZMF55/60/62Zn	182,00	1,080	mm in.	59 2,32"	40 1,57"	18 0,70"	89 3,50"

ANODO PONTA DE EIXO BENETEAU



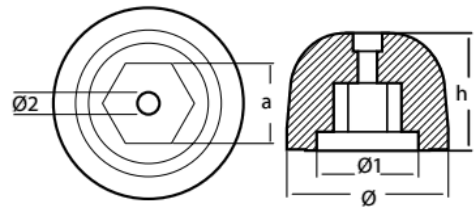
	Ref.	R\$	Kg	Un.	Ø	Ø ₁	Ø ₂	Ø ₃	h
ZN	ZMB25Zn	55,00	0,130	mm in.	34 1,34"	25 0,98"	6,5 0,26"	11 0,43"	40 1,57"
ZN	ZMB30Zn	75,00	0,250	mm in.	42 1,65"	32 1,26"	8,5 0,33"	13,5 0,53"	53 2,08"
ZN	ZMB35Zn	95,00	0,320	mm in.	46 1,81"	38 1,50"	8,5 0,33"	13,5 0,53"	62 2,44"
ZN	ZMB40Zn	139,00	0,500	mm in.	51 2"	42 1,65"	8,5 0,33"	16 0,62"	67 2,63"
ZN	ZMB45Zn	177,00	0,850	mm in.	60 2,36"	46 1,81"	11 0,43"	21 0,83"	76 2,99"
ZN	ZM50Zn	208,00	1,160	mm in.	72 2,83"	57 2,24"	11 0,43"	22 0,87"	83 3,27"

ANODO HÉLICE VARIFOLD *VF3AN*



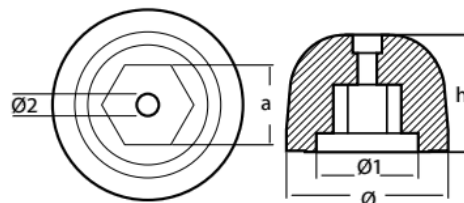
	Ref.	R\$	Kg	Un.	a	h	Ø	m
Zn	ZMVF3ANZn	80,00	0,900	mm	19,05	45	45	M16 x
Al	ZMVF3ANZn	80,00	0,360	in.	0,75"	1,77"	1,77"	2mm

ANODO BOWTHRUSTER 3/4"



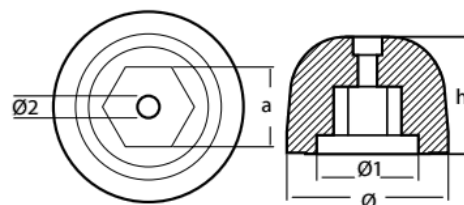
	Ref.	R\$	Kg	Un.	a	h	Ø	Ø ₁	Ø ₂
Zn	ZMFBT34Zn	80,00	0,310	mm	19,05	40	47	35	7
Al	ZMBT34Al	80,00	0,120	in.	0,75"	1,57"	1,83"	1,37"	0,27"

ANODO BOWTHRUSTER 1"



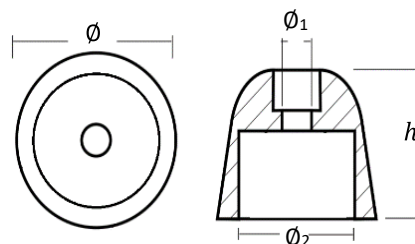
	Ref.	R\$	Kg	Un.	a	h	Ø	Ø ₁	Ø ₂
Zn	ZMFBT1Zn	80,00	0,310	mm in.	28	40	47	35	7
Al	ZMBT1Al	80,00	0,120		1,1"	1,57"	1,83"	1,37"	0,27"

ANODO BOWTHRUSTER 1 1/4"



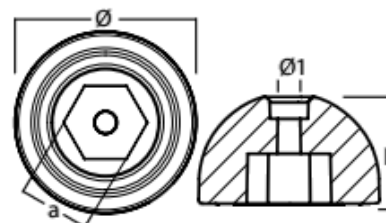
	Ref.	R\$	Kg	Un.	a	h	Ø	Ø ₁	Ø ₂
Zn	ZMFBT1Zn	80,00	0,310	mm in.	33	40	47	35	7
Al	ZMBT1Al	80,00	0,120		1,29"	1,57"	1,83"	1,37"	0,27"

ANODO BOWTHRUSTER RETO



	Ref.	R\$	Kg	Un.	Ø	Ø ₁	Ø ₂	h
Zn	ZMBTRZn	80,00	0,310	mm	49	10	36	42
Al	ZMBTRAl	80,00	0,120	in.	1,93"	0,39"	1,42"	1,65"

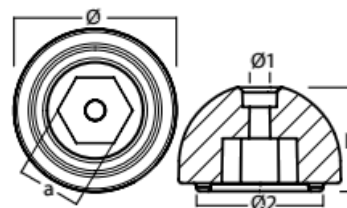
ANODO BOWTHRUSTER 3/4" PEQUENO



	Ref.	R\$	Kg	Un.	a	h	Ø	Ø ₁
Zn	ZMBTZn	80,00	0,100	mm	19,05	24	40	7
Al	ZMBTAl	80,00	0,050	in.	0,75"	0,94"	1,57"	0,27"

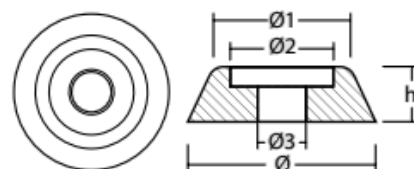
ANODO BOWTHRUSTER QUICKSILVER

TQ18500



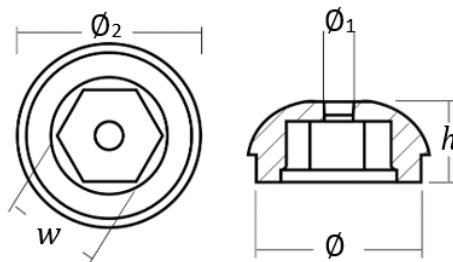
	Ref.	R\$	Kg	Un.	a	h	Ø	Ø ₁	Ø ₂
Zn	ZMTQ18500Zn	80,00	0,736	mm	20	32	50	6	39
Al	ZMTQ18500Al	80,00	0,260	in.	0,79"	1,26"	1,97"	0,24"	1,54"

ANODO BOWTHRUSTER LEWMAR 589550



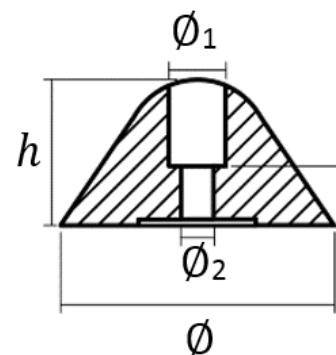
	Ref.	R\$	Kg	Un.	h	Ø	Ø ₁	Ø ₂	Ø ₃
Zn	ZM589550Zn	39,00	0,237	mm	19	60	42	34	15
Al	ZM589550Al	38,00	0,095	in.	0,75"	2,36"	1,65"	1,34"	0,59"

ANODO BOWTHRUSTER SIDE POWER



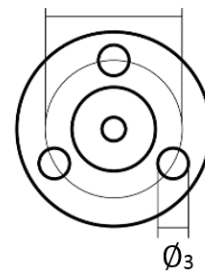
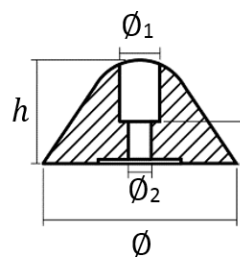
	Ref.	R\$	Kg	Un.	Ø	Ø ₁	Ø ₂	w	h
Zn	ZMSP71190Zn	80,00	0,135	mm	41	7	46	20	20
Al	ZMSP71190Al	80,00	0,054	in.	1,61"	0,27"	1,81"	0,78"	0,78"

ANODO FLEXOFOLD 4 PÁS



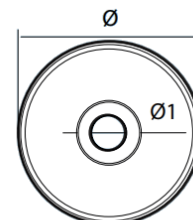
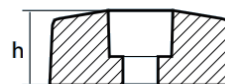
	Ref.	R\$	Kg	Un.	Ø	Ø ₁	Ø ₂	h
Zn	ZMFF4Zn	126,00		mm	86	16	8	46
Al	ZMFF4Al	126,00		in.	3,38"	0,63"	0,31"	1,81"

ANODO FLEXOFOLD 3 PÁS



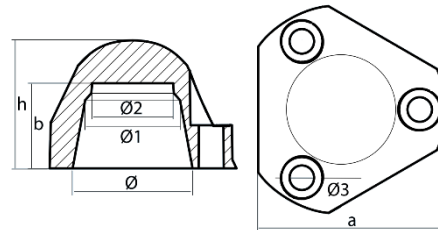
	Ref.	R\$	Kg	Un.	Ø	Ø ₁	Ø ₂	Ø ₃	h
Zn	ZMFFZn	80,00	0,490	mm	66	16	8	13	30
Al	ZMFFAl	80,00	0,196	in.	2,60"	0,63"	0,31"	0,51"	1,18"

ANODO FLEXOFOLD 2 PÁS FF-2



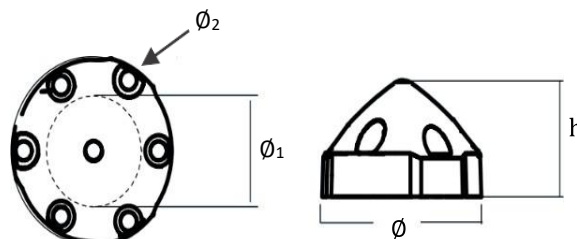
	Ref.	R\$	Kg	Un.	Ø	Ø ₁	h
Zn	ZMFF2Zn	50,00	0,060	mm in.	32 1,26"	6 0,24"	13 0,51"

ANODO HÉLICE AUTOPROP H-6



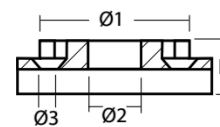
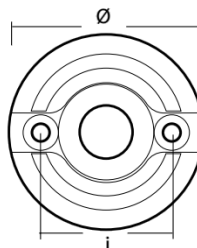
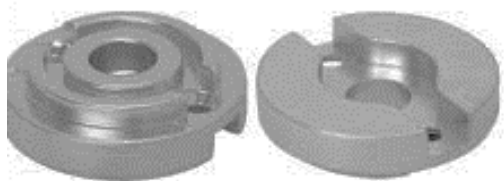
	Ref.	R\$	Kg	Un.	Ø	Ø ₁	Ø ₂	Ø ₃	b	h
Zn	ZMH6Zn	111,00	0,410	<i>mm</i> <i>in.</i>	50 1,97"	43 1,69"	19 0,75"	9 0,35"	30 1,18"	45 1,77"

ANODO MAX PROP



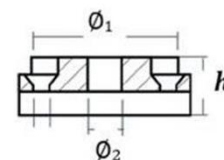
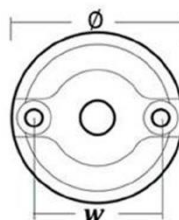
	Ref.	R\$	Kg	Un.	Ø	Ø ₁	Ø ₂	h
Zn	ZMP58Zn	95,00	0,300	<i>mm</i>	61	39	6,5	38
Al	ZMP58Al	94,00	0,120	<i>in.</i>	2,40"	1,54"	0,26"	1,50"
Zn	ZMP68Zn	111,00	0,405	<i>mm</i>	68	44	5	44
Al	ZMP68Al	109,00	0,162	<i>in.</i>	2,68"	1,73"	0,20"	1,73"
Zn	ZMP78Zn	143,00	0,885	<i>mm</i>	80	46	7	56
Al	ZMP78Al	131,00	0,354	<i>in.</i>	3,15"	1,81"	0,27"	2,20"

ANODO BOWTHRUSTER BP-1185/ SET0150



	Ref.	R\$	Kg	Un.	Ø	Ø ₁	Ø ₂	Ø ₃	i	h
Zn	ZMSET0150Zn	80,00	0,150	mm in.	56 2,20"	44 1,73"	15 0,59"	5 0,20"	40 1,57"	15 0,59"

ANODO BOWTHRUSTER BP-1126/ SET0149



	Ref.	R\$	Kg	Un.	Ø	Ø ₁	Ø ₂	w	h
Zn	ZMSET0149Zn	80,00	0,150	mm in.	50 1,97"	43 1,69"	15 0,59"	37 1,46"	17 0,67"

ANODO ANEL GORI



15527500 - hélices 3 pás Gori
15-16,5 "



11520000 - hélices 3 pás Gori
15-16,5 "



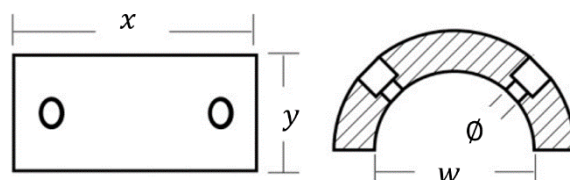
15530000 - hélices de 3 pás Gori 18-20 "



15539500 - hélices de 3 pás Gori 18-20 "



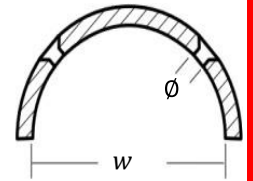
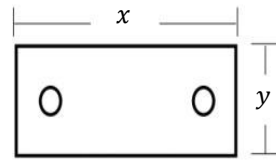
15540000 - hélices de 3 pás Gori
22-26 "



	Ref.	R\$	Kg	Un.	x	w	Ø	y
Zn	ZM15527500Zn	126,00	0,340	mm in.	81 3,19"	56 2,20"	6 0,24"	24 0,94"
Zn	ZM11520000Zn	126,00	0,330	mm in.	65 2,56"	45 1,77"	7 0,28"	34 1,34"
Zn	ZM15530000Zn	126,00	0,810	mm in.	83 3,27"	53 2,09"	6 0,24"	40 1,57"
Zn	ZM5539500Zn	139,00	0,900	mm in.	95 3,74"	59 2,32"	6,5 0,26"	34 1,34"
Zn	ZM15540000Zn	146,00	1,200	mm in.	98 3,86"	63 2,48"	7 0,28"	47 1,85"

ANODO ANEL GORI - HÉLICES 2 PÁS

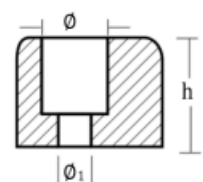
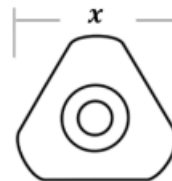
GORI 13"-18 " 15670000



	Ref.	R\$	Kg	Un.	x	w	Ø	y
Zn	ZM15670000Zn	134,00	0,605	mm in.	98 3,86"	79 3,11"	6,5 0,26"	40 1,57"

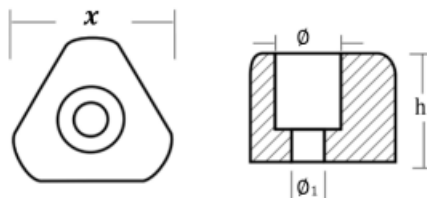
ANODO TRIÂNGULO GORI HÉLICES DE 3 PÁS GORI 15" – 16,5"

14072100



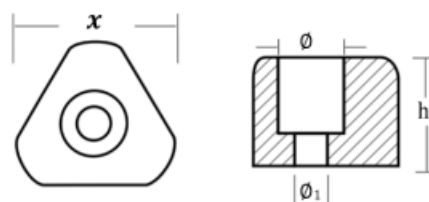
	Ref.	R\$	Kg	Un.	x	Ø ₁	Ø	h
Zn	ZM14072100Zn	35,00	0,035	mm in.	27 1,06"	7 0,28"	12 0,47"	16 0,63"

ANODO TRIÂNGULO GORI HÉLICES DE 3 PÁS GORI 18" – 20" 14073100



	Ref.	R\$	Kg	Un.	<i>x</i>	\varnothing_1	\varnothing	<i>h</i>
Zn	ZM14073100Zn	35,00	0,050	<i>mm</i> <i>in.</i>	27 1,06"	6 0,24"	12 0,47"	16 0,63"

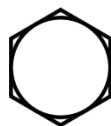
ANODO TRIÂNGULO GORI HÉLICES DE 3 PÁS GORI 22", 24" e 26" 14074100



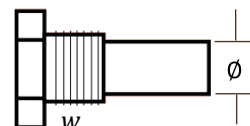
	Ref.	R\$	Kg	Un.	<i>x</i>	\varnothing_1	\varnothing	<i>h</i>
Zn	ZM14074100Zn	41,00	0,100	<i>mm</i> <i>in.</i>	33 1,22"	8 0,31"	13 0,51"	20 0,78"

REFRIGERAÇÃO PARA MOTORES

ANODO MERCUISER 1.7 882283



a



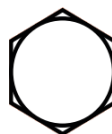
w

	Ref.	R\$	Kg	Un.	\varnothing	a	w
Zn	ZM882283Zn	63,00	0,100	mm in.	15,88 5/8"	22,23 7/8"	1/2" NPT

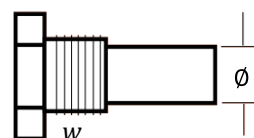
ANODO MERCUISER 4.2 806000

YANMAR 119574-44150

GERADOR ONAN 1304434



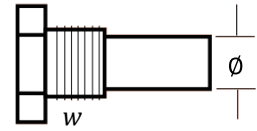
a



w

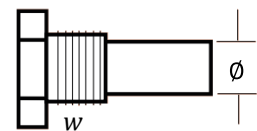
	Ref.	R\$	Kg	Un.	\varnothing	a	w
Zn	ZM806000Zn	55,00	0,060	mm in.	12,7 1/2"	17,46 11/16"	3/8" NPT
Zn	ZM11957444150Zn	55,00	0,060	mm in.	12,7 1/2"	17,46 11/16"	3/8" NPT
Zn	ZM1304434Zn	55,00	0,060	mm in.	12,7 1/2"	17,46 11/16"	3/8" NPT

ANODO MOTOR 2.0/2.8/4.2L 879194217



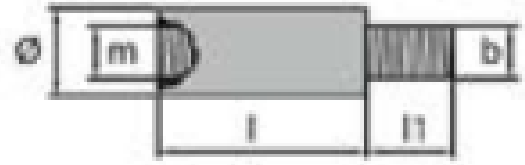
	Ref.	R\$	Kg	Un.	Ø	a	w
Zn	ZM879194217Zn	63,00	0,055	mm in.	15 0,59"	22,23 7/8"	M18 X 1,5

ANODO MERCUISER TDI V6



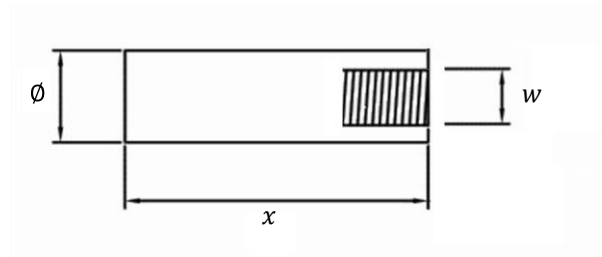
	Ref.	R\$	Kg	Un.	Ø	a	w
Zn	ZMV6Zn	63,00	0,040	mm in.	10 0,39"	22,23 7/8"	M18 X 1,5

ANODO VOLVO PENTA M8 C/ ROSCA EXTERNA



	Ref.	R\$	Kg	Un.	m	b	Ø	l	l1
Zn	ZM838929REZn	39,00	0,050	mm in.	M8	7/16" unc	16 0,62"	30 1,18"	10 0,39"

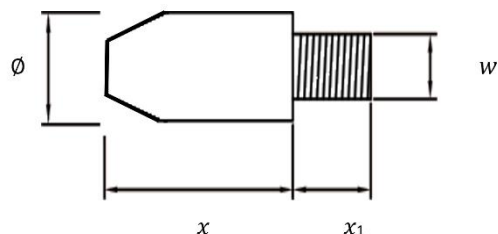
ANODO VOLVO PENTA M8 838929



	Ref.	R\$	Kg	Un.	Ø	x	w
Zn	ZM838929Zn	34,00	0,050	mm in.	16 0,62"	39 1,53"	M8

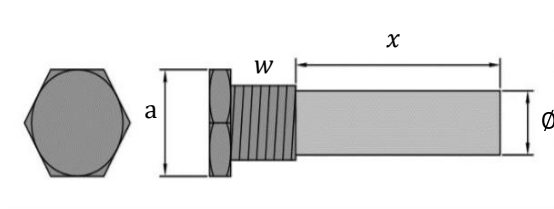
ANODO VOLVO PENTA AFTER COOLER

823661



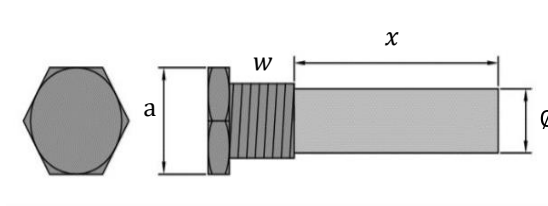
	Ref.	R\$	Kg	Un.	Ø	x	x ₁	w
Zn	ZM823661Zn	37,00	0,160	mm in.	26 1,02"	44 1,75"	8 0,31"	3/8" UNC

ANODO GERADOR KOHLER 267928



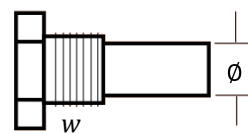
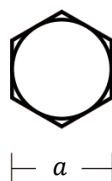
	Ref.	R\$	Kg	Un.	Ø	x	a	w
Zn	ZM267928Zn	55,00	0,120	mm in.	16 5/8"	38 1,50"	22,23 7/8"	1/4" NPT

ANODO KOHLER 25KVA



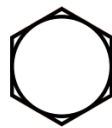
	Ref.	R\$	Kg	Un.	Ø	x	a	w
Zn	ZMK25KVAZn	63,00	0,075	mm in.	15 0,59"	28 1,10"	22,23 7/8"	M18 X 1,5

ANODO KOHLER 55KVA

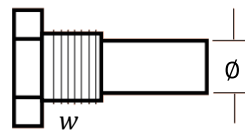


	Ref.	R\$	Kg	Un.	Ø	a	w
Zn	ZMK55KVAZn	60,00		mm in.			

ANODO GERADOR ONAN 5KVA

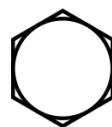


| a |

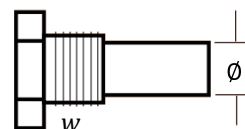


	Ref.	R\$	Kg	Un.	Ø	a	w
Zn	ZMO5KVAZn	55,00	0,030	mm in.	10 0,39"	14 0,55"	1/4" NPT

ANODO CUMMINS / YANMAR 119574-18790

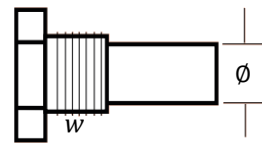


| a |



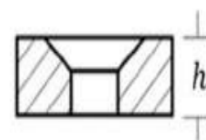
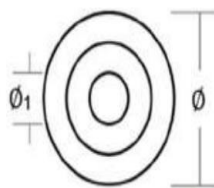
	Ref.	R\$	Kg	Un.	Ø	a	w
Zn	ZMCMZn	63,00	0,136	mm in.	16 5/8"	22 7/8"	1/2" NPT
Zn	ZM11957418790Zn	63,00	0,136	mm in.	16 5/8"	22 7/8"	1/2" NPT

ANODO GERADOR MASE



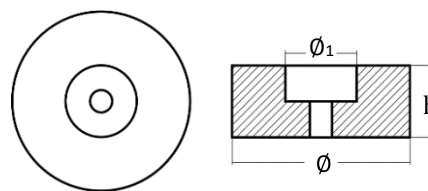
	Ref.	R\$	Kg	Un.	\varnothing	x	a	w
Zn	ZMM10Zn	50,00	0,015	mm in.	8 0,315"	10 0,394"	14,29 9/16"	1/4" NPT
Zn	ZMM20Zn	50,00	0,020	mm in.	8 0,315"	20 0,787"	14,29 9/16"	1/4" NPT
Zn	ZMM30Zn	50,00	0,025	mm in.	8 0,315"	30 1,181	15,88 5/8"	1/4" NPT
Zn	ZMM23Zn	119,00	0,165	mm in.	22 0,866"	40 1,575"	28,58 1.1/8"	1/4" NPT

ANODO REFRIGERAÇÃO MOTOR MWM



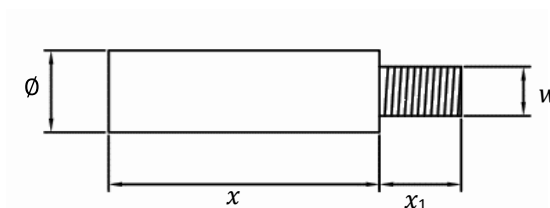
	Ref.	R\$	Kg	Un.	\varnothing	h
Zn	ZMMWMZn	25,00	0,020	mm in.	17,5 0,68"	10 0,393"

ANODO MUFLA MOTOR MWM



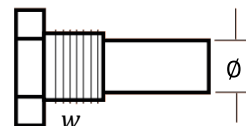
	Ref.	R\$	Kg	Un.	Ø	h
Zn	ZMMWMMZn	40,00	0,075	mm in.	32,5 1,27"	17 0,670"

ANODO CATERPILLAR 6L2280, 6L2281, 6L2283, 6L3104, 6L2288, 5B9651



	Ref.	R\$	Kg	Un.	Ø	x	x ₁	w
Zn	ZM6L2280Zn	55,00	0,040	mm In.	12,7 0,50"	38,1 1,5"	10 0,39"	3/8" UNC
Zn	ZM6L2281Zn	55,00	0,040	mm In.	12,7 0,50"	38,1 1,5"	10 0,39"	3/8" UNC
Zn	ZM6L2283Zn	63,00	0,040	mm In.	10 0,39"	55 2,17"	10 0,39"	1/4" UNC
Zn	ZM6L3104Zn	55,00	0,025	mm In.	10 0,39"	38 1,50"	10 0,39"	1/14" UNC
Zn	ZM6L2288Zn	63,00	0,090	mm In.	16 0,63"	63 2,48"	13 0,51"	3/8" UNC
Zn	ZM5B9651Zn	63,00	0,075	mm In.	16 0,63"	51 2,01"	13 0,51"	3/8" UNC

ANODO YANMAR 120650-13420



	Ref.	R\$	Kg	Un.	Ø	x	w
Zn	ZM12065013420Zn	63,00	0,055	mm In.	15 0,59"	22,23 7/8"	M18 X 1,5

KIT REFRIGERAÇÃO MOTOR 4.2 (PRETO)



	Ref.	R\$	Kg	Contém:
Zn	MOTOR PRETO	110,00		2 unid. ZM806000

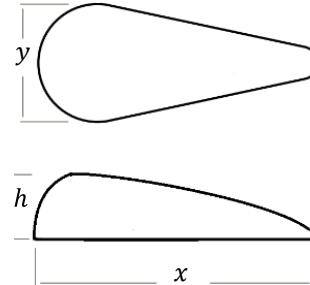
KIT REFRIGERAÇÃO MOTOR 4.2 (BRANCO)



	Ref.	R\$	Kg	Contém:
Zn	MOTOR BRANCO	118,00		1 unid. ZM806000 1 unid. ZM879194217

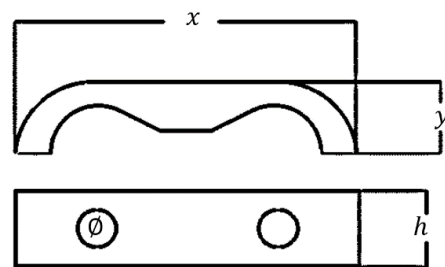
ANODO PARA SERPENTINA

ANODO APS-6/MOUSE



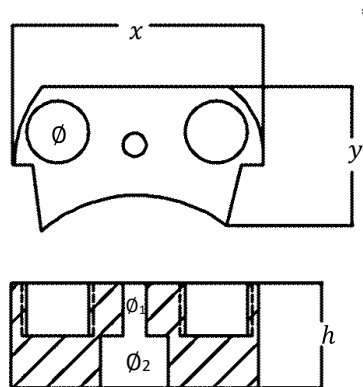
	Ref.	R\$	Kg	Un.	x	y	h
Zn	ZMAPS6Zn	49,00	0,600	mm	116	58	25
Al	ZMAPS6Al	41,00	0,240	in.	4,57"	2,28"	0,98"

ANODO APS-7



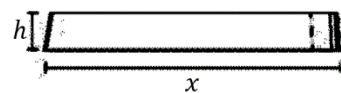
	Ref.	R\$	Kg	Un.	x	y	h
Zn	ZMAPS7Zn	93,00	0,700	mm	176	30	39
Al	ZMAPS7Al	90,00	0,280	in.	6,93"	1,18"	1,53"

ANODO APS-11



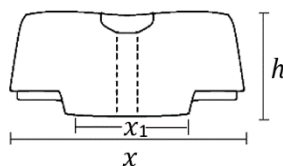
	Ref.	R\$	Kg	Un.	x	y	Ø	Ø ₁	Ø ₂	h
Zn	ZMAPS11Zn	81,00	1,200	mm	115	63	28	11	25	36
Al	ZMAPS11Al	78,00	0,480	in.	4,53"	2,48"	1,10"	0,43"	0,98"	1,42"

ANODO APS-14



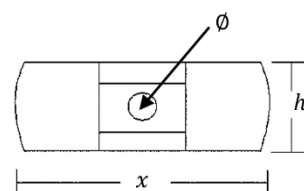
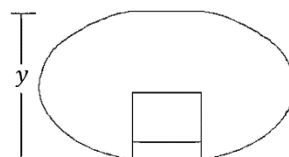
	Ref.	R\$	Kg	Un.	x	x ₁	h
ZN	ZMAPS14Zn	80,00	1,162	mm	180	83	20
AL	ZMAPS14Al	75,00	0,465	in.	7,08"	3,27"	0,79"

ANODO APS-18



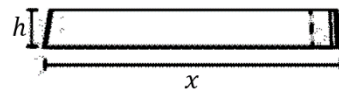
	Ref.	R\$	Cód	Kg	Un.	<i>x</i>	<i>x</i> ₁	<i>y</i>	∅	<i>h</i>
Zn	ZMAPS18Zn	113,00	ZMAPS18	1,700	mm	120	63	70	14	49
Al	ZMAPS18Al	110,00		0,680	in.	4,72"	2,48"	2,75"	0,55"	1,92"

ANODO APS-19



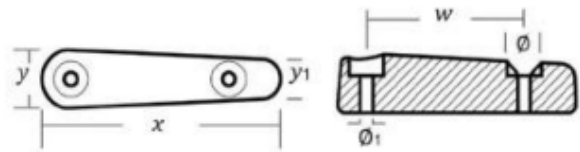
	Ref.	R\$	Kg	Un.	∅	<i>x</i>	<i>y</i>	<i>h</i>
Zn	ZMAPS19Zn	121,00	1,800	mm	12	125	70	45
Al	ZMAPS19Al	119,00	0,720	in.	0,47"	4,92"	2,75"	1,77"

ANODO APS-27



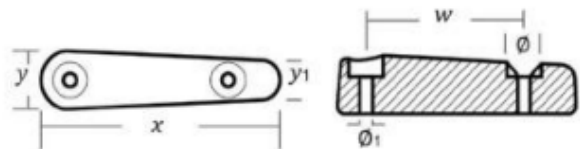
	Ref.	R\$	Kg	Un.	x	x_1	h
ZN	ZMAPS27Zn	167,00	2,437	mm	250	120	23
AL	ZMAPS27Al	167,00	0,975	in.	9,28"	4,72"	0,90"

ANODO BARRA RABETA ARNESON G



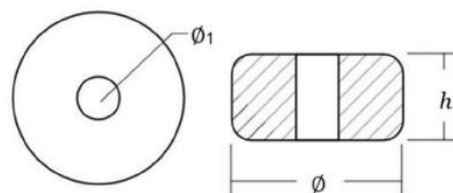
	Ref.	R\$	Kg	Un.	x	y	y ₁	w	Ø	Ø ₁
Zn	ZMARNLZn	140,00	0,1575	mm	190	46	30	127	27	10,5
Al	ZMARNLAI	132,00	0,630	in.	7,48"	1,81"	1,18"	5"	1,06"	0,41"

ANODO BARRA RABETA ARNESON P



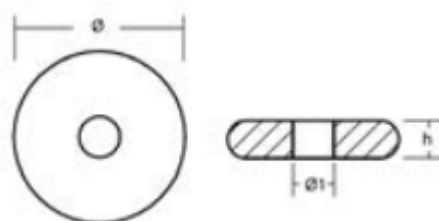
	Ref.	R\$	Kg	Un.	x	y	y ₁	w	Ø	Ø ₁
Zn	ZMARNSZn	81,00	0,560	mm	150	32	19	88	22	10,5
Al	ZMARNSAI	75,00	0,224	in.	5,90"	1,26"	0,75"	3,46"	0,86"	0,41"

ANODO JET SKI SEADOO 271001487



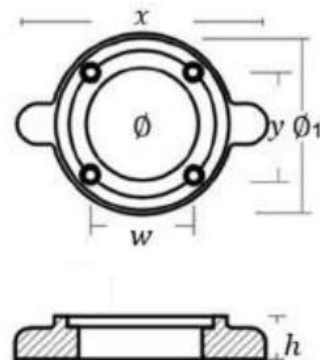
	Ref.	R\$	Kg	Un.	<i>h</i>	ϕ	ϕ_1
Zn	ZM271001487Zn	34,00	0,040	mm	12	24	7
Al	ZM271001487Al	32,00	0,016	in.	0,47"	0,94"	0,27"

ANODO JET SKI SEADOO 271001920



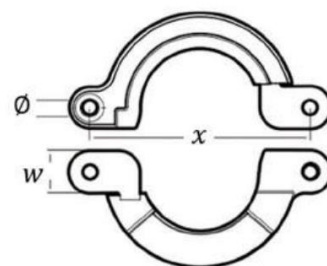
	Ref.	R\$	Kg	Un.	<i>h</i>	ϕ	ϕ_1
Zn	ZM271001920Zn	32,00	0,040	mm	6	27	6,5
Al	ZM271001920Al	30,00	0,016	in.	0,24"	1,06"	0,26"

ANODO ANEL RABETA YANMAR 19642002652



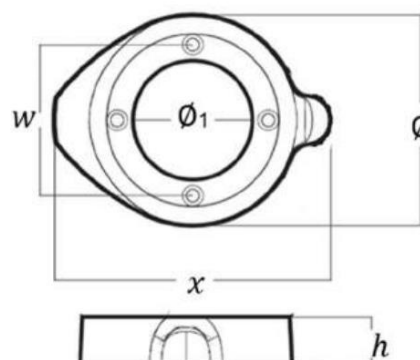
	Ref.	R\$	Kg	Un.	x	y	Ø ₁	w	Ø	h
Zn	ZM19642002652Zn	97,00	0,830	mm	147	43	108	73	66	25
Al	ZM19642002652Al	90,00	0,332	in.	5,79"	1,69"	4,25"	2,87"	2,60"	0,98"

ANODO ANEL RABETA YANMAR BIPARTIDO 196440026600



	Ref.	R\$	Kg	Un.	x	Ø	w
Zn	ZM196440026600Zn	117,00	0,650	mm	123	8	24
Al	ZM196440026600Al	112,00	0,260	in.	4,84"	0,31"	0,94"

ANODO RABETA ZF/NANNI 3321301012

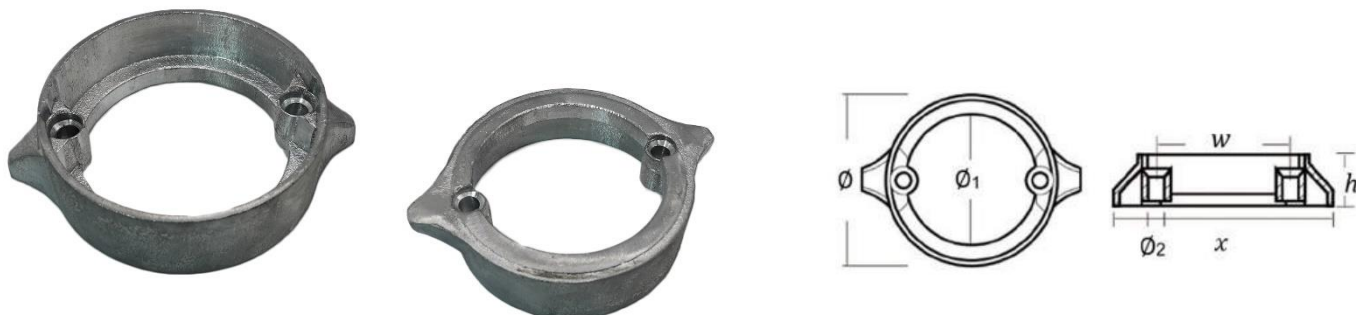


	Ref.	R\$	Kg	Un.	x	Ø_1	w	Ø	h
Zn	ZM3321301012Zn	97,00	0,900	mm	148	64	81	113	25
Al	ZM3321301012Al	87,00	0,360	in.	5,83"	2,52"	3,19"	4,45"	0,98"

VOLVO PENTA

ANODO ANEL RABETA SÉRIE 290 DP VP

875821



	Ref.	R\$	Kg	Un.	x	Ø	Ø ₁	Ø ₂	w	h
Zn	ZM875821Zn	97,00	0,585	mm in.	146 5,75"	111 4,37"	85 3,35"	9 0,35"	92 3,58"	30 1,18"
Al	ZM875821Al	90,00	0,234							
Mg	ZM875821Mg	99,00	0,156							

ANODO BARRA DO ESPELHO 290 DP VP

852835



	Ref.	R\$	Kg	Un.	Ø	Ø ₁	x	a	w	h
Zn	ZM852835Zn	97,00	0,820	mm in.	8,5 0,33"	14 0,55"	132 5,20"	46 1,81"	85 3,35"	25 0,98"
Al	ZM852835Al	90,00	0,328							
Mg	ZM852835Mg	99,00	0,219							

ANODO ANEL RABETA SÉRIE 280 **875815**



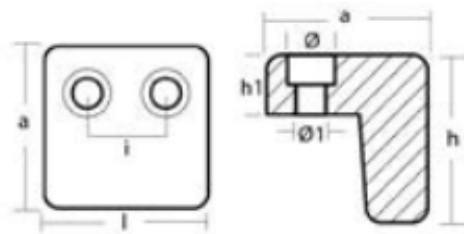
	Ref.	R\$	Kg	Un.	x	\emptyset	\emptyset_1	x_1	h
Zn	ZM875815Zn	88,00	0,720	mm in.	156	104	61	80	35
Al	ZM875815Al	83,00	0,288		6,14"	4,09"	2,40"	3,15"	1,38"
Mg	ZM875815Mg	120,00	0,192						

ANODO BARRA DO ESPELHO 250/285 VP **832598**



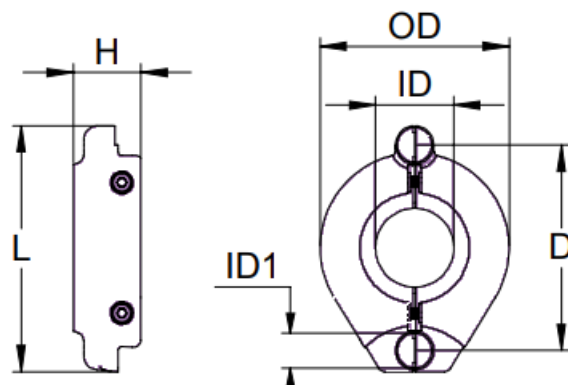
	Ref.	R\$	Kg	Un.	\emptyset	\emptyset_1	x	w	h
Zn	ZM832598Zn	97,00	0,805	mm in.	15	9	188	145	22
Al	ZM832598Al	90,00	0,322		0,59"	0,35"	7,40"	5,71"	0,87"
Mg	ZM832598Mg	111,00	0,215						

ANODO 270-280 VP 832934



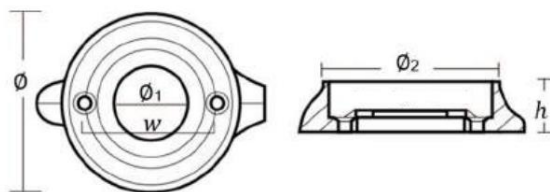
	Ref.	R\$	Kg	Un.	l	a	i	Ø	Ø ₁	h ₁	h
Zn	ZM832934Zn	97,00	0,630	mm in.	55 2,17"	54 2,13"	26 1,02"	13 0,51"	9 0,35"	20 0,79"	56 2,20"

ANODO RABETA 130s 150s 22651246



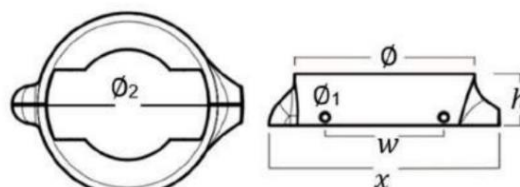
	Ref.	R\$	Kg	Un.	L	d	ID	ID1	OD	h
Zn	ZM22651246Zn	247,00	1,475	mm in.	141	118	45	20	109	39
Al	ZM22651246Al	247,00	0,590		5,55"	4,65"	1,77"	0,79"	4,29"	1,54"

ANODO ANEL RABETA SÉRIE 120 **851983**



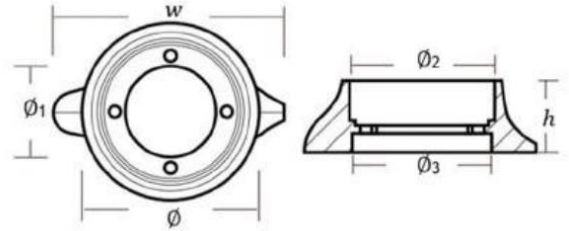
	Ref.	R\$	Kg	Un.	Ø	Ø ₁	Ø ₂	w	h
Zn	ZM851983Zn	97,00	0,455	mm in.	97 3,82"	40 1,57"	88 3,46"	72 2,83"	27 1,06"
Al	ZM851983Al	90,00	0,182						
Mg	ZM851983Mg	114,00	0,122						

ANODO ANEL RABETA SÉRIE 120 BIPARTIDO **876286**



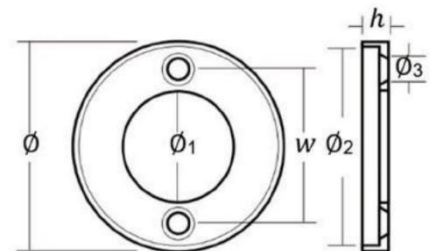
	Ref.	R\$	Kg	Un.	Ø	Ø ₁	Ø ₂	w	x	h
Zn	ZM876286Zn	102,00	0,390	mm in.	95 3,47"	4,4 0,17"	88 3,46"	63 2,48"	59 2,32"	27 1,06"
Al	ZM876286Al	96,00	0,156							
Mg	ZM876286Mg	117,00	0,104							

ANODO ANEL RABETA SÉRIE 110 875812



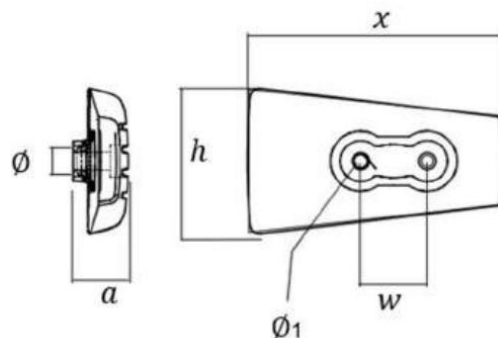
	Ref.	R\$	Kg	Un.	Ø	Ø ₁	Ø ₂	Ø ₃	w	h
Zn	ZM875812Zn	85,00	0,835	mm in.	106 4,17"	65 2,56"	85 3,35"	82 3,23"	138 5,43"	43 1,69"
Al	ZM875812Al	76,00	0,334							
Mg	ZM875812Mg	114,00	0,223							

ANODO ANEL RABETA 275 VP 875805



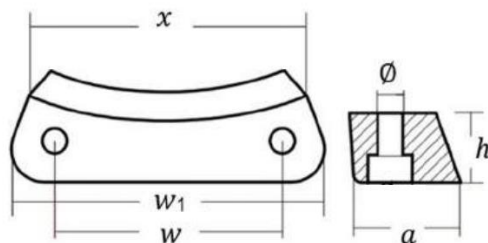
	Ref.	R\$	Kg	Un.	Ø	Ø ₁	Ø ₂	Ø ₃	w	h
Zn	ZM875805Zn	63,00	0,425	mm in.	108 4,25"	58 2,28"	103 4,06"	10 0,39"	80 3,15"	10 0,39"
Al	ZM875805Al	63,00	0,170							
Mg	ZM875805Mg	66,00	0,114							

ANODO RABETA VP DPH DRIVES 3588746



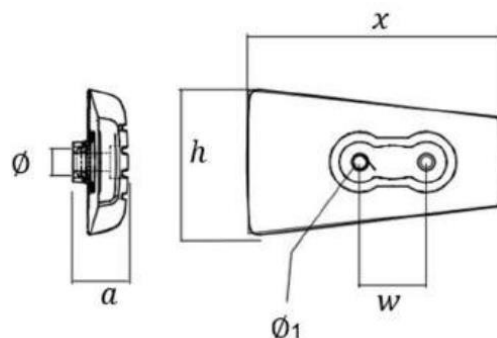
	Ref.	R\$	Kg	Un.	a	w	x	Ø	Ø ₁	h
Zn	ZM3588746Zn	111,00	0,825	mm in.	35	35	133	14	9	76
Al	ZM3588746Al	104,00	0,333		1,38"	1,38"	5,24"	0,55"	0,35"	2,99"
Mg	ZM3588746Mg	140,00	0,220							

ANODO ESPELHO DPH / DPI / VP D4 D6 3588745



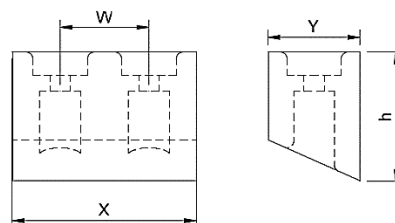
	Ref.	R\$	Kg	Un.	Ø	a	x	w	w ₁	h
Zn	ZM3588745Zn	97,00	0,465	mm in.	9,5	37	101	86	118	25
Al	ZM3588745Al	91,00	0,186		0,37"	1,46"	3,98"	3,39"	4,65"	0,98"
Mg	ZM3588745Mg	120,00	0,125							

ANODO RABETA DPI 23520859



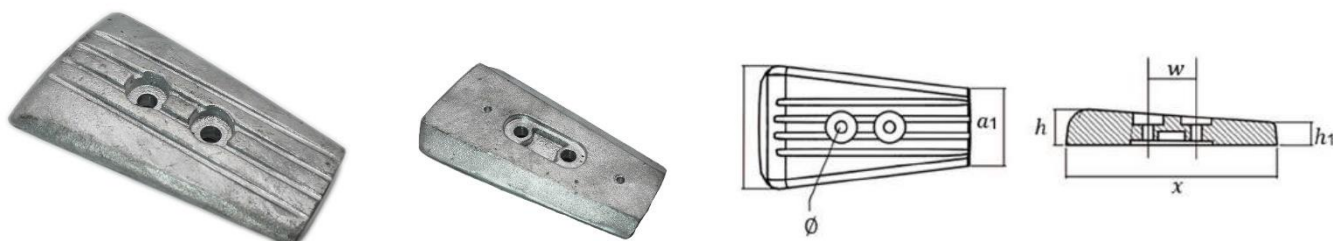
	Ref.	R\$	Kg	Un.	ϕ	w	x	a	a ₁	h
Zn	ZM23520859Zn	132,00	1,600	mm	9,52	34,9	155	38,1	65	112
Al	ZM23520859Al	132,00	0,640	in.	0,37"	1,37"	6,10"	1,5"	2,55"	4,40"

ANODO MUFLA VOLVO PENTA V6 V8 21403633



	Ref.	R\$	Kg	Un.	w	x	y	h
Zn	ZM21403633Zn	90,00	0,230	mm	26	54	16	38
Al	ZM21403633Al	90,00	0,095	in.	1,02"	2,12"	0,62"	1,49"

ANODO RABETA DPS/SX VP **3883728**



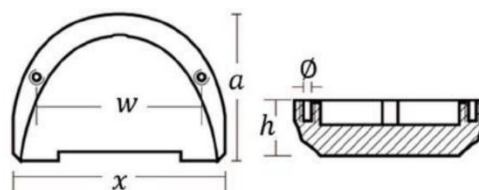
	Ref.	R\$	Kg	Un.	ϕ	w	x	a	a ₁	h
Zn	ZM3883728Zn	106,00	1,290	mm in.	10 0,39"	35 1,38"	151 5,94"	90 354"	59 2,32"	29 1,14"
Al	ZM3883728Al	104,00	0,516							
Mg	ZM3883728Mg	133,00	0,344							

ANODO ESPELHO VP DPS-A, DPS-B, FWD **3841427**



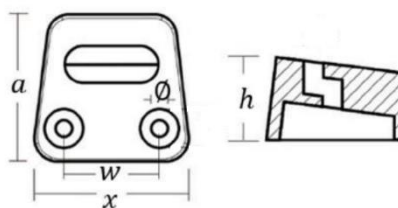
	Ref.	R\$	Kg	Un.	ϕ	w	x	a	a ₁	h
Zn	ZM3841427Zn	100,00	1,160	mm in.	9 0,35"	30 1,18"	100 3,94"	90 3,54"	61 2,40"	28 1,10"
Al	ZM3841427Al	95,00	0,465							
Mg	ZM3841427Mg	127,00	0,310							

ANODO VP RABETA SX/DP-SM 3855411



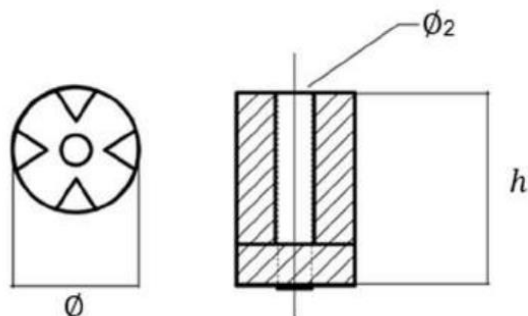
	Ref.	R\$	Kg	Un.	a	w	x	Ø	h
Zn	ZM3855411Zn	164,00	1,095	mm in.	104 4,09"	113 4,45"	146 5,75"	¼"	38 1,50"
Al	ZM3855411Al	159,00	0,438						
Mg	ZM3855411Mg	182,00	0,292						

ANODO VP SX/DP-SM 3854130



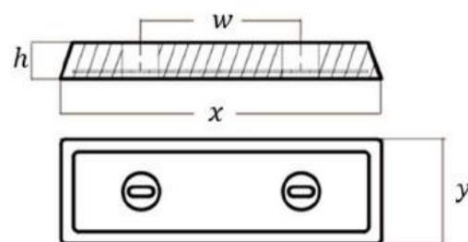
	Ref.	R\$	Kg	Un.	a	w	x	Ø	h
Zn	ZM3854130Zn	130,00	1,050	mm in.	79 3,11"	51 2,01"	91 3,58"	10 0,39"	47 1,85"
Al	ZM3854130Al	130,00	0,420						
Mg	ZM3854130Mg	140,00	0,280						

ANODO RABETA VP IPS 3593981



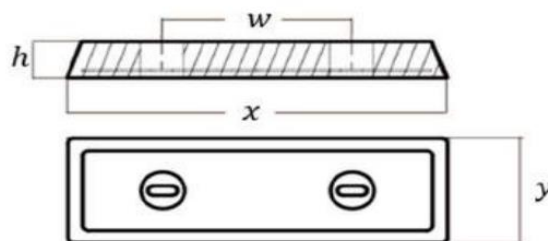
	Ref.	R\$	Kg	Un.	\varnothing	\varnothing_2	h
Zn	ZM3593981Zn	138,00	0,710	mm in.	49	10,5	70
Al	ZM3593981Al	138,00	0,284		1,93"	0,41"	2,76"

ANODO PLACA VOLVO PENTA IPS 40005875



	Ref.	R\$	Kg	Un.	y	w	x	h
Al	ZM40005875Al	196,00	1,456					

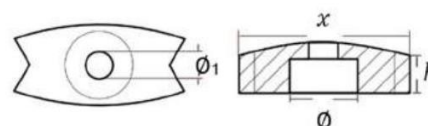
ANODO PLACA VOLVO PENTA IPS 21174476



	Ref.	R\$	Kg	Un.	y	w	x	h
Zn	ZM21174476Zn	279,00	4,900	mm	85	150	350	30
Al	ZM21174476Al	262,00	2,000	in.	3,35	5,90"	13,77"	1,18"

ANODO BOWTHRUSTER VOLVO PENTA

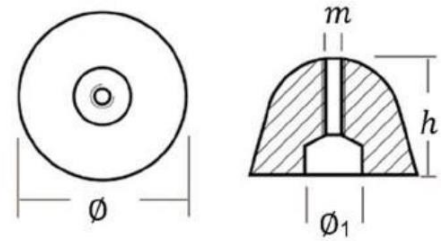
41100276



	Ref.	R\$	Kg	Un.	x	Ø	Ø ₁	h
Zn	ZM41100276Zn	66,00	0,088	mm	51	17	7	12
Al	ZM41100276Al	64,00	0,035	in.	2,01"	0,67"	0,28"	0,47"

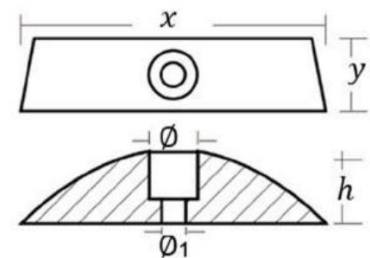
ANODO BOWTHRUSTER VOLVO PENTA

41100098



	Ref.	R\$	Kg	Un.	m	\emptyset	\emptyset_1	h
Zn	ZM41100098Zn	66,00	0,060	mm	M4	29	9,5	20
Al	ZM41100098Al	66,00	0,025	in.		1,14"	0,37"	0,79"

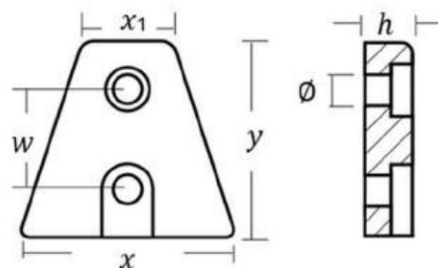
ANODO CONJUNTO 2 PÁS DOS MODELOS 110 E 121 852018



	Ref.	R\$	Kg	Un.	y	x	\emptyset	\emptyset_1	h
Zn	ZM852018Zn	72,00	0,120	mm	15	63	10	5,5	15
Al	ZM852018Al	69,00	0,050	in.	0,59"	2,48"	0,39"	0,22"	0,59"

ANODO VOLVO PENTA DPX TRAPEZOID

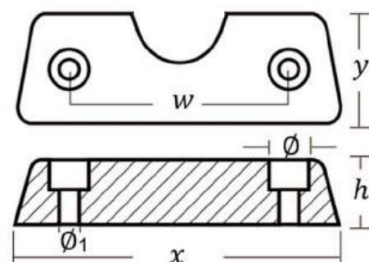
876638



	Ref.	R\$	Kg	Un.	y	x	x ₁	w	Ø	h
Zn	ZM876638Zn	97,00	0,185	mm	56	60	26	28	13	14
Al	ZM876638Al	91,00	0,075	in.	2,20"	2,36"	1,02"	1,10"	0,51"	0,53"

ANODO VOLVO PENTA DPX ESPELHO

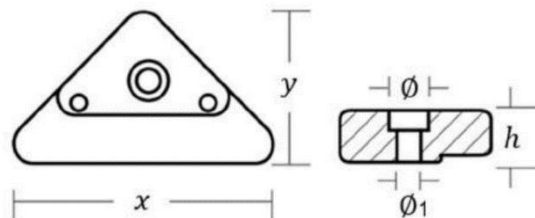
872139



	Ref.	R\$	Kg	Un.	y	x	w	Ø	Ø ₁	h
Zn	ZM872139Zn	97,00	0,670	mm	35	130	85	15	8,5	25
Al	ZM872139Al	91,00	0,268	in.	1,38"	5,12"	3,35"	0,59"	0,33"	0,98"

ANODO VOLVO PENTA DPX TRIANGULO

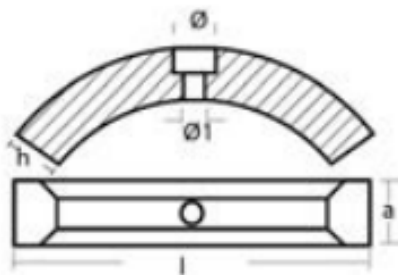
872793



	Ref.	R\$	Kg	Un.	y	x	Ø	Ø ₁	h
Zn	ZM852018Zn	72,00	0,120	mm	15	63	10	5,5	15
Al	ZM852018Al	69,00	0,050	in.	0,59"	2,48"	0,39"	0,22"	0,59"

ANODO VOLVO PENTA COLAR DE 3 PEÇAS

23974203/3858399



	Ref.	R\$	Kg	Un.	l	a	h	Ø	Ø ₁
Zn	ZM23974203Zn	147,00	0,095	mm	87	15	12	10	5,5
Al	ZM23974203Al	147,00	0,038	in.	3,43"	0,59"	0,47"	0,39"	0,22"

KIT VOLVO PENTA 280



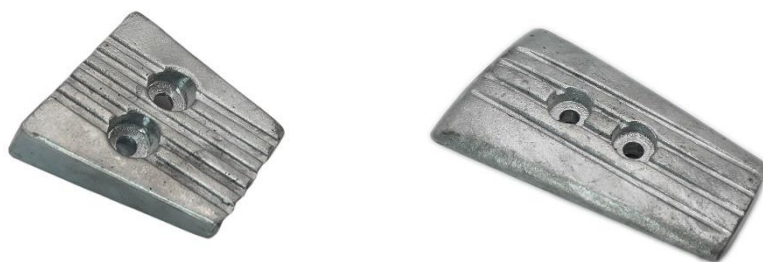
	Ref.	R\$	Kg	Contém:
Zn		175,00		1 unid. ZM832598 1 unid. ZM875815
Al		173,00		
Mg		230,00		

KIT VOLVO PENTA 290 DP



	Ref.	R\$	Kg	Contém:
Zn		184,00		1 unid. ZM875821 1 unid. ZM852835
Al		180,00		
Mg		198,00		

KIT VOLVO PENTA DPS/SX-A



	Ref.	R\$	Kg	Contém:
Zn		205,00		1 unid. ZM3883728 1 unid. ZM3841427
Al		198,00		
Mg		260,00		

KIT VOLVO PENTA SX/DP-SM



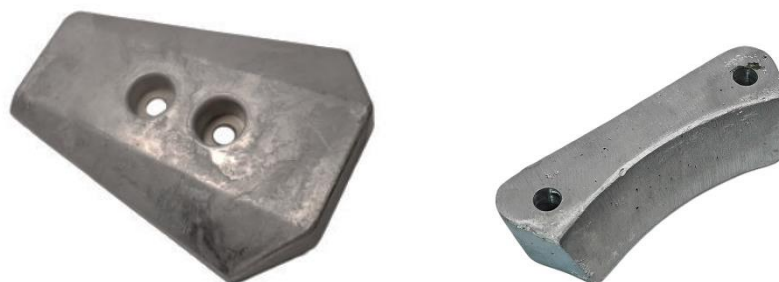
	Ref.	R\$	Kg	Contém:
Zn		280,00		1 unid. ZM3855411 1 unid. ZM3854130
Al		280,00		
Mg		320,00		

KIT VOLVO PENTA DPH



	Ref.	R\$	Kg	Contém:
Zn		202,00		1 unid. ZM3588745 1 unid. ZM3588746
Al		190,00		
Mg		258,00		

KIT VOLVO PENTA DPI

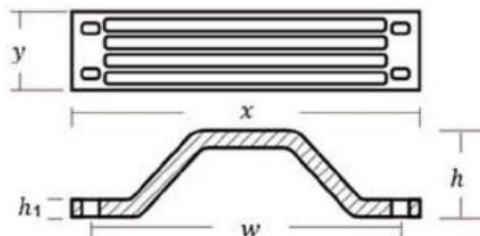


	Ref.	R\$	Kg	Contém:
Zn		220,00		1 unid. ZM3588745 1 unid. ZM3588746
Al		218,00		

YAMAHA

ANODO CAVALETE YAMAHA

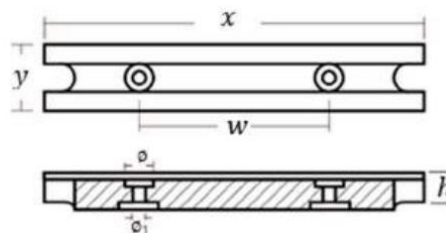
115-350 HP 6G54525101



	Ref.	R\$	Kg	Un.	y	x	w	h ₁	h
Zn	ZM6G54525101Zn	104,00	0,880	mm in.	47 1,85"	202 7,95"	183 7,20"	17 0,67"	52 2,05"
Al	ZM6G54525101Al	90,00	0,352						
Mg	ZM6G54525101Mg	138,00	0,235						

ANODO CAVALETE YAMAHA 40-115 HP

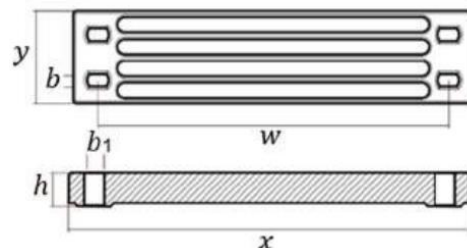
6H14525103



	Ref.	R\$	Kg	Un.	y	x	w	Ø	Ø ₁	h
Zn	ZM6H14525103Zn	102,00	0,480	mm in.	36 1,42"	203 7,99"	101 3,98"	15 0,59"	7 0,78"	16 0,63"
Al	ZM6H14525103Al	101,00	0,192							
Mg	ZM6H14525103Mg	147,00	0,128							

ANODO CAVALETE YAMAHA

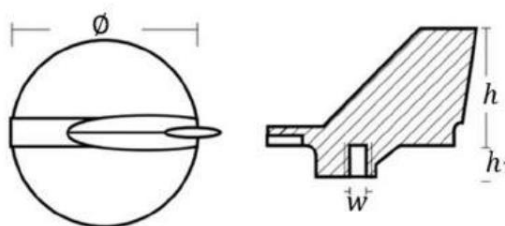
200-350 HP 6AW4525100



	Ref.	R\$	Kg	Un.	y	x	w	b	b ₁	h
Zn	ZM6AW4525100Zn	104,00	0,630	mm in.	47 1,85"	201 7,91"	180 7,09"	6,5 0,25"	11 0,43"	17 0,67"
Al	ZM6AW4525100Al	90,00	0,260							
Mg	ZM6AW4525100Mg	138,00	0,166							

ANODO YAMAHA LEME 200-300 HP

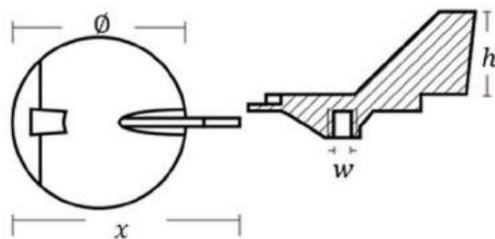
61A4537100



	Ref.	R\$	Kg	Un.	Ø	w	h ₁	h
Zn	ZM61A4537100Zn	111,00	0,650	mm in.	99 3,90"	10x1,25	14 0,55"	71 0,55"
Al	ZM61A4537100Al	111,00	0,260					
Mg	ZM61A4537100Mg	123,00	0,174					

ANODO YAMAHA LEME 150-225 HP

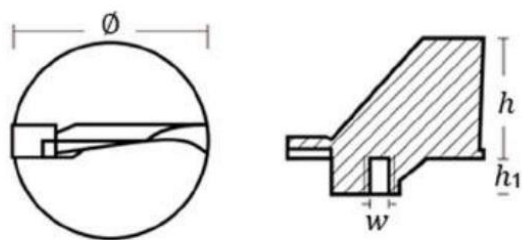
6J94537101



	Ref.	R\$	Kg	Un.	x	w	Ø	h
Zn	ZM6J94537101Zn	120,00	0,635	mm in.	140 5,51"	10x1,25	100 3,94"	60 2,36"
Al	ZM6J94537101Al	111,00	0,254					
Mg	ZM6J94537101Mg	133,00	0,170					

ANODO YAMAHA LEME 90-200 HP

6E54537101



	Ref.	R\$	Kg	Un.	Ø	w	h ₁	h
Zn	ZM6E54537101Zn	111,00	0,435	mm in.	91 3,58"	10x1,25	19 0,75"	57 2,24"
Al	ZM6E54537101Al	111,00	0,174					
Mg	ZM6E54537101Mg	125,00	0,116					

ANODO YAMAHA LEME 25-50 HP **6644537101**



	Ref.	R\$	Kg	Un.	Ø	Ø ₁	Ø ₂	h
Zn	ZM6644537101Zn	81,00	0,240	<i>mm</i> <i>in.</i>	91,5 3,60"	18 0,71"	8,5 0,33"	55 2,17"
Al	ZM6644537101Al	79,00	0,096					
Mg	ZM6644537101Mg	91,00	0,064					

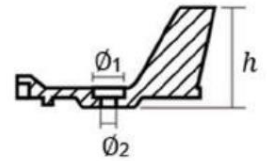
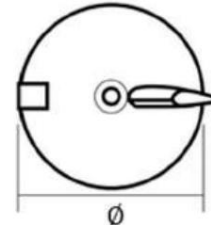
ANODO YAMAHA LEME 50-100 HP

67F4537100



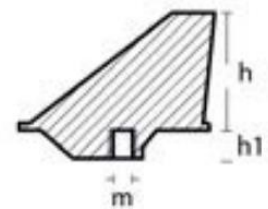
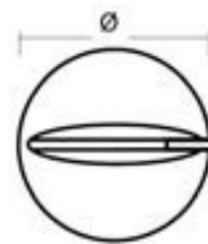
	Ref.	R\$	Kg	Un.	x	w	Ø	h ₁	h
Zn	ZM67F4537100Zn	118,00	0,440	<i>mm</i> <i>in.</i>	132 5,20"	10x1,25	92 3,62"	25 0,98"	50 1,97"
Al	ZM67F4537100Al	117,00	0,176						
Mg	ZM67F4537100Mg	136,00	0,118						

ANODO YAMAHA LEME 25-60 HP **67C4537100**



	Ref.	R\$	Kg	Un.	\emptyset	\emptyset_1	\emptyset_2	h
Zn	ZM67C4537100Zn	83,00	0,215	mm in.	95 3,74"	17 0,67"	9 0,35"	55 2,17"
Al	ZM67C4537100Al	76,00	0,086					
Mg	ZM67C4537100Mg	92,00	0,057					

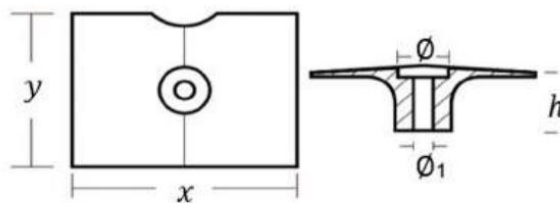
ANODO YAMAHA LEME 25/40/48/50/55/60/70 HP **6794537100**



	Ref.	R\$	Kg	Un.	m	\emptyset	h_1	h
Zn	ZM6794537100Zn	111,00	0,340	mm in.	10x1,25	91 3,58"	19 0,75"	55 2,17"
Al	ZM6794537100Al	111,00	0,136					
Mg	ZM6794537100Mg	125,00	0,095					

ANODO MOTOR YAMAHA 8-25 HP

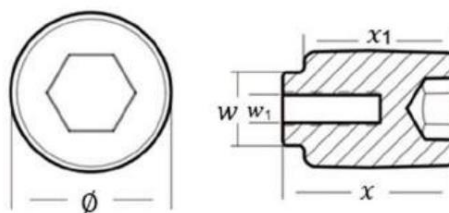
61N4525101



	Ref.	R\$	Kg	Un.	y	x	\varnothing	\varnothing_1	h
Zn	ZM61N4525101Zn	65,00	0,250	mm in.	59 2,32"	80 3,15"	16,5 0,65"	6,5 0,26"	26 1,02"
Al	ZM61N4525101Al	65,00	0,100						
Mg	ZM61N4525101Mg	74,00	0,066						

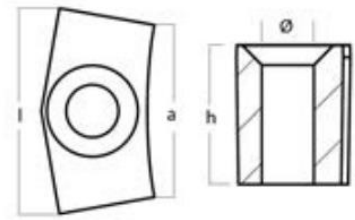
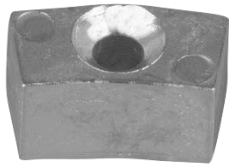
ANODO INTERNO MOTOR YAMAHA

75-250 68V1132501



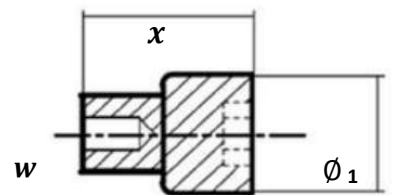
	Ref.	R\$	Kg	Un.	x	x ₁	w	w ₁	\varnothing
Zn	ZM68V11325501Zn	65,00	0,075	mm in.	32 1,26"	28 1,10"	14 0,55"	M6	21 0,83"
Al	ZM68V11325501Al	65,00	0,030						

ANODO YAMAHA 300-350 HP **6AW1132P00**



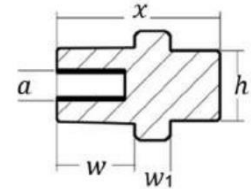
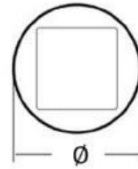
	Ref.	R\$	Kg	Un.	Ø	a	l	h
Zn	ZM6AW1132P00Zn	30,00		mm in.	6,5 0,26"	22 0,87"	26 1,02"	17 0,67"

ANODO INTERNO MOTOR YAMAHA 75-250 HP **68V1132502**



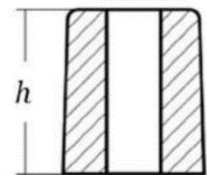
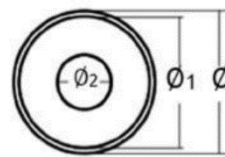
	Ref.	R\$	Kg	Un.	Ø	Ø ₁	w	x
Zn	ZM68V1132502Zn	60,00	0,060	mm in.	14 0,55"	22 0,87"	M6	32 1,26"
Al	ZM68V1132502Al	60,00	0,024					

ANODO INTERNO MOTOR YAMAHA A 75-350 *67F1132501*



	Ref.	R\$	Kg	Un.	<i>a</i>	<i>x</i>	<i>w</i>	<i>w</i> ₁	Ø	<i>h</i>
Zn	ZM67F1132501Zn	44,00	0,045	<i>mm</i>	M6	32	14	7	22	14
Al	ZM67F1132501Al	44,00	0,018	<i>in.</i>		1,26"	0,55"	0,28"	0,87"	0,55"

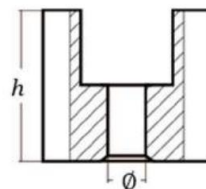
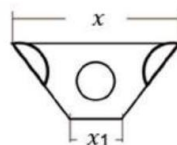
ANODO BLOCO/CABEÇOTE YAMAHA *6G81132500*



	Ref.	R\$	Kg	Un.	Ø	Ø ₁	Ø ₂	<i>h</i>
Zn	ZM6G81132500Zn	23,00	0,015	<i>mm</i>	13	12	5,5	16
Al	ZM6G81132500Al	23,00	0,006		<i>in.</i>	0,51"	0,47"	0,22"

ANODO INTERNO MOTOR YAMAHA

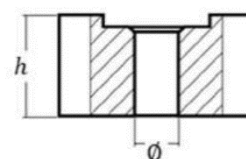
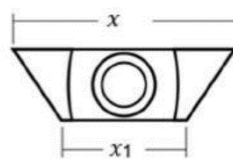
40-90 HP *6881132500*



	Ref.	R\$	Kg	Un.	Ø	x	x1	h
Zn	ZM6881132500Zn	30,00	0,010	mm in.	5 0,20"	23 0,91"	7 0,28"	20 0,79"

ANODO INTERNO MOTOR YAMAHA

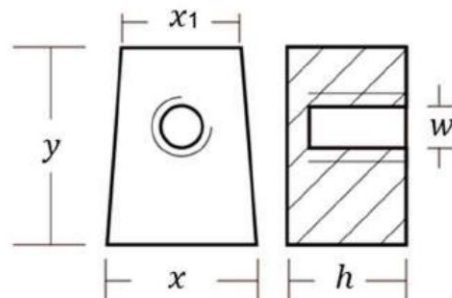
6E51132500



	Ref.	R\$	Kg	Un.	Ø	x	x1	h
Zn	ZM6E51132500Zn	21,00	0,010	mm in.	5 0,20"	27 1,06"	14 0,55"	10 0,39"

ANODO YAMAHA CUBO 25-60 HP

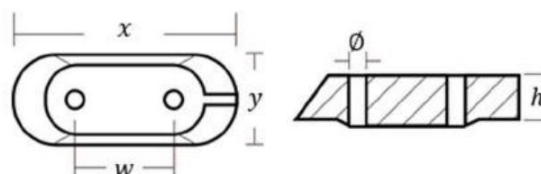
67C4525100



	Ref.	R\$	Kg	Un.	x	x1	y	w	h
Zn	ZM67C4525100Zn	55,00	0,120	mm in.	26 1,02"	21 0,83"	35 1,38"	M8	23 0,91"
Al	ZM67C4525100Al	55,00	0,048						
Mg	ZM67C4525100Mg	62,00	0,032						

ANODO LATERAL YAMAHA 4-15 HP

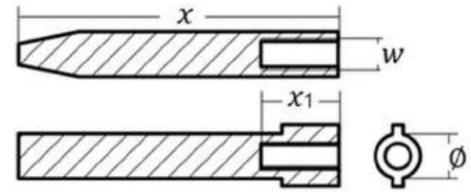
65W4525100



	Ref.	R\$	Kg	Un.	x	w	y	φ	h
Zn	ZM65W4525100Zn	45,00	0,100	mm in.	63 2,48"	26 1,02"	25 0,98"	6 0,24"	14 0,55"
Al	ZM65W4525100Al	45,00	0,040						
Mg	ZM65W4525100Mg	55,00	0,027						

ANODO INTERNO MOTOR YAMAHA

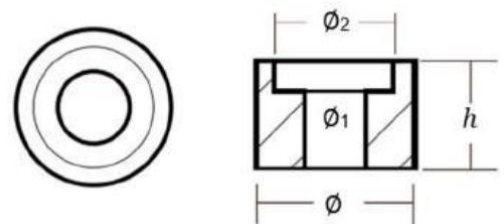
25-250 HP *62Y1132500*



	Ref.	R\$	Kg	Un.	x	x 1	w	Ø
Zn	ZM62Y1132500Zn	55,00	0,015	mm in.	50 1,97"	12 0,47"	M5	8,5 0,33"

ANODO INTERNO MOTOR YAMAHA

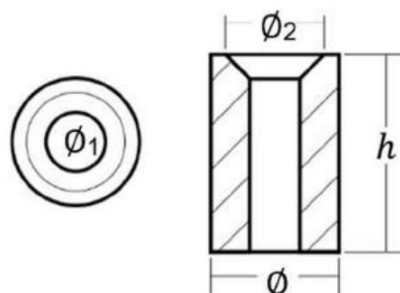
40 -90 HP *6634525100/6884525101*



	Ref.	R\$	Kg	Un.	Ø	Ø 1	Ø 2	h
Zn	ZM6634525100Zn	97,00	0,045	mm in.	24 0,94"	6,5 0,26"	12 0,47"	15 0,59"

ANODO INTERNO MOTOR YAMAHA

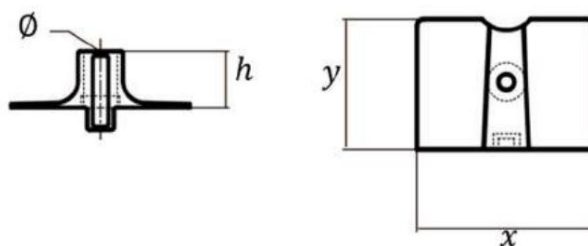
68T1132500



	Ref.	R\$	Kg	Un.	Ø	Ø ₁	Ø ₂	h
Zn	ZM68T1132500Zn	31,00	0,016	mm in.	13 0,51"	6 0,24"	10 0,39"	20 0,79"

ANODO MOTOR YAMAHA 4T 15-20 HP

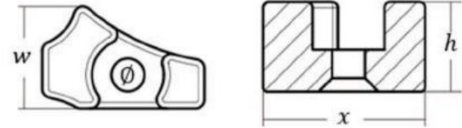
6AH4525100



	Ref.	R\$	Kg	Un.	x	y	Ø	h
Zn	ZM6AH4525100Zn	65,00	0,260	mm in.	80 3,15"	58 2,28"	7 0,28"	25 0,98"
Al	ZM6AH4525100Al	65,00	0,104					

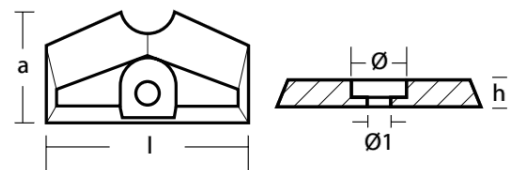
ANODO INTERNO MOTOR YAMAHA

9,9 - 15 HP *6821132500*



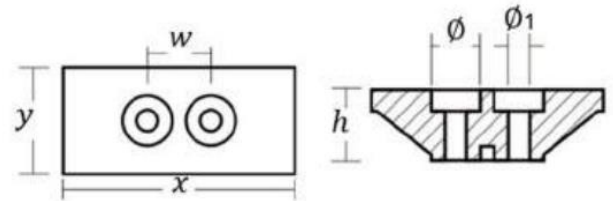
	Ref.	R\$	Kg	Un.	<i>x</i>	<i>h</i>	ϕ	<i>w</i>
Zn	ZM6821132500Zn	34,00	0,020	<i>mm</i> <i>in.</i>	27 31,06"	15 0,59"	5,5 0,22"	17 0,67"

ANODO MOTOR YAMAHA 2-6 HP *6L54525103*



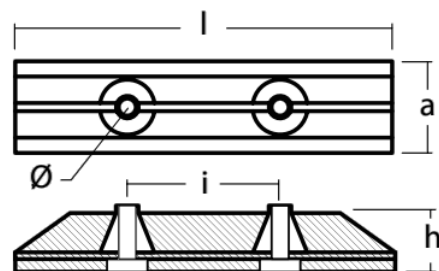
	Ref.	R\$	Kg	Un.	<i>a</i>	<i>l</i>	ϕ	ϕ_1	<i>h</i>
Zn	ZM6L54525103Zn	32,00	0,065	<i>mm</i> <i>in.</i>	34	60	18	6,5	8,5
Al	ZM6L54525103Al	32,00	0,025		1,34"	2,36"	0,71"	0,26"	0,33"

ANODO YAMAHA HYDRA DRIVE *6UA4525100*



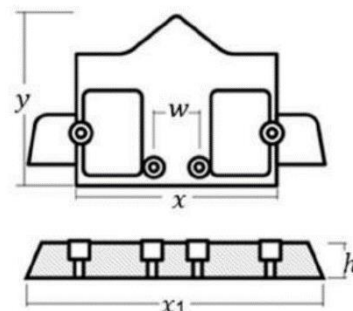
	Ref.	R\$	Kg	Un.	y	x	w	Ø	Ø ₁	h
Zn	ZM6UA4525100Zn	90,00	0,250	mm	45	99	27	20	9	32
Al	ZM6UA4525100Al	89,00	0,100	in.	1,77"	3,90"	1,06"	0,79"	0,35"	1,26"

ANODO YAMAHA HYDRA DRIVE ME 422 DE-DHT-C *6U44525100*



	Ref.	R\$	Kg	Un.	l	i	a	Ø	h
Zn	ZM6U44525100Zn	92,00	0,690	mm	187	76	46	9	32
Al	ZM6U44525100Al	90,00	0,276	in.	7,36"	2,99"	1,81"	0,35"	1,26"

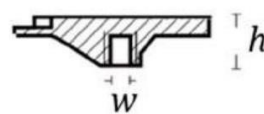
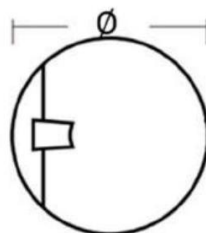
ANODO YAMAHA HYDRA 6U04525100



	Ref.	R\$	Kg	Un.	y	x	x ₁	w	h
Zn	ZM6U04525100Zn	235,00	1,450	mm	130	145	225	35	25
Al	ZM6U04525100Al	221,00	0,580	in.	5,12"	5,71"	8,86"	1,38"	0,98"

ANODO MOTOR YAMAHA 200-350 HP

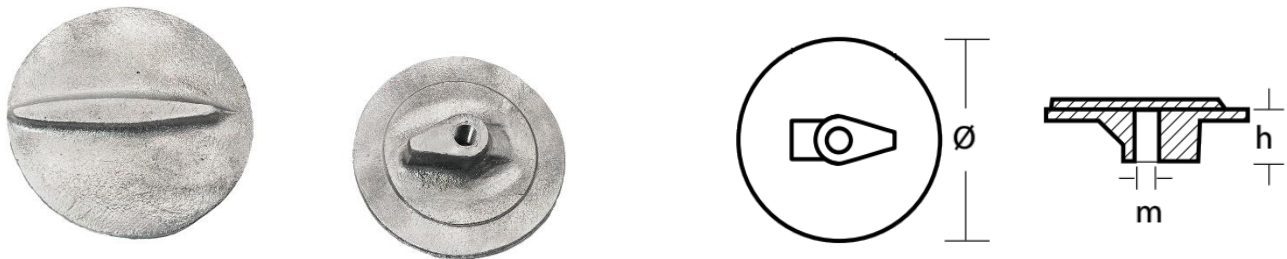
6CE4537300 (Substitui 61A-45371-00-00)



	Ref.	R\$	Kg	Un.	h	Ø	w
Zn	ZM6CE4537300Zn	120,00	0,450	mm in.	22 0,87"	99 3,90"	10x1,25
Al	ZM6CE4537300Al	120,00	0,180				
Mg	ZM6CE4537300Mg	133,00	0,120				

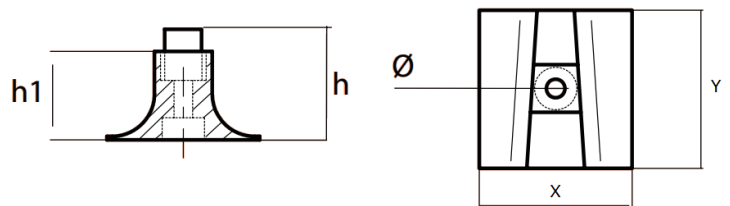
ANODO MOTOR YAMAHA 60-225 HP

6E54537110



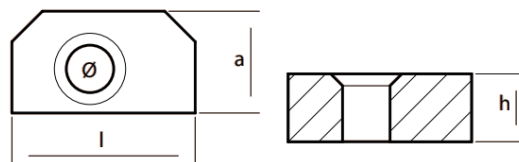
	Ref.	R\$	Kg	Un.	<i>h</i>	Ø	<i>m</i>
Zn	ZM6E54537110Zn	111,00	0,235	mm in.	22 0,87"	91 3,58"	10x1,25
Al	ZM6E54537110Al	111,00	0,094				
Mg	ZM6E54537110Mg	125,00	0,060				

ANODO YAMAHA 300-350 HP 6AW4537300



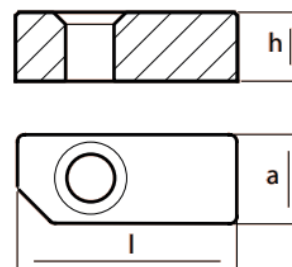
	Ref.	R\$	Kg	Un.	<i>y</i>	<i>x</i>	Ø	<i>h</i>	<i>h</i> ₁
Zn	ZM6AW4537300Zn	152,00	1,030	mm in.	93 3,66"	90 3,54"	11 0,43"	65 2,56"	52 2,05"
Al	ZM6AW4537300Al	152,00	0,400						
Mg	ZM6AW4537300Mg	167,00	0,573						

ANODO YAMAHA 150-300 HP **63P1132511**



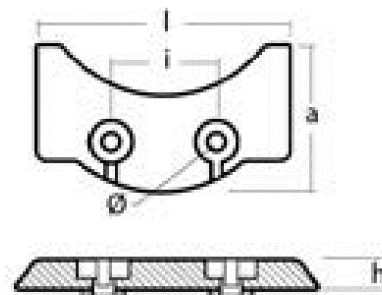
	Ref.	R\$	Kg	Un.	Ø	a	l	h
Zn	ZM63P1132511Zn	30,00	0,020	mm in.	7 0,28"	15 0,59"	27 1,06"	10 0,39"

ANODO YAMAHA 150-350 HP **63P1132501**



	Ref.	R\$	Kg	Un.	Ø	a	l	h
Zn	ZM63P1132501Zn	30,00	0,025	mm in.	13 0,51"	13 0,51"	32 1,26"	10 0,39"

ANODO YAMAHA HYDRA 6U44537300



	Ref.	R\$	Kg	Un.	ϕ	a	l	i	h
Zn	ZM6U44537300Zn	120,00	0,330	mm in.	8,5 0,33"	70 2,76"	120 4,72"	50 1,96"	11 0,44"

KIT YAMAHA F 40



	Ref.	R\$	Kg	Contém:
Al		216,00		

KIT YAMAHA F 60



	Ref.	R\$	Kg	Contém:
Al		265,00		

KIT YAMAHA F 90



	Ref.	R\$	Kg	Contém:
Al		216,00		

KIT YAMAHA F 115



	Ref.	R\$	Kg	Contém:
Al		209,00		

KIT YAMAHA F 150



	Ref.	R\$	Kg	Contém:
Al		200,00		

KIT YAMAHA F 200



	Ref.	R\$	Kg	Contém:
Al		200,00		

KIT YAMAHA F 225 / F 250



	Ref.	R\$	Kg	Contém:
Al		200,00		

KIT YAMAHA F 350



	Ref.	R\$	Kg	Contém:
Al		270,00		

MERCURY/MARINER

ANODO CAVALETE 40 HP V6 135 / 150/175 Verado *818298*



	Ref.	R\$	Kg	Un.	x	y	Ø	h
Zn	ZM818298Zn	80,00	0,600	mm in.	195 7,68"	52 2,05"	7 0,28"	12 0,47"
Al	ZM818298Al	77,00	0,240					
Mg	ZM818298Mg	94,00	0,160					

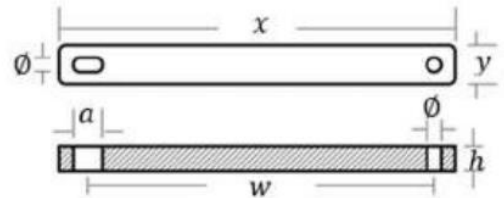
ANODO CAVALETE MERCURY 200-300 HP *8M0057772*



	Ref.	R\$	Kg	Un.	y	x	w	Ø	h
Zn	ZM8M0057772Zn	80,00	0,550	mm in.	51 2,01"	170 6,69"	44 1,73"	6,5 0,26"	18 0,71"
Al	ZM8M0057772Al	77,00	0,220						
Mg	ZM8M0057772Mg	94,00	0,145						

ANODO CAVALETE MOTORES MERCURY

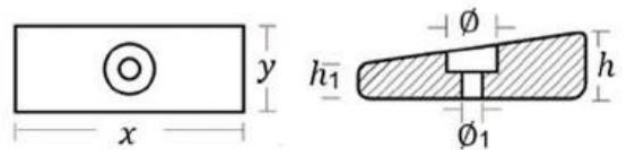
30-50 HP 825271



	Ref.	R\$	Kg	Un.	y	x	w	a	φ	h
Zn	ZM825271Zn	65,00	0,275	mm in.	19 0,75"	194 7,64"	166 6,54"	14 0,55"	7 0,28"	12 0,47"
Al	ZM825271Al	68,00	0,110							
Mg	ZM825271Mg	74,00	0,073							

ANODO LATERAL MERCURY 35-300 HP

826134



	Ref.	R\$	Kg	Un.	y	x	φ	h	h ₁
Zn	ZM826134Zn	42,00	0,230	mm in.	30 1,18"	77 3,03"	17 0,67"	22 0,87"	12 0,47"
Al	ZM826134Al	40,00	0,092						
Mg	ZM826134Mg	58,00	0,062						

ANODO DISCO PLANO (C/ROSCA)

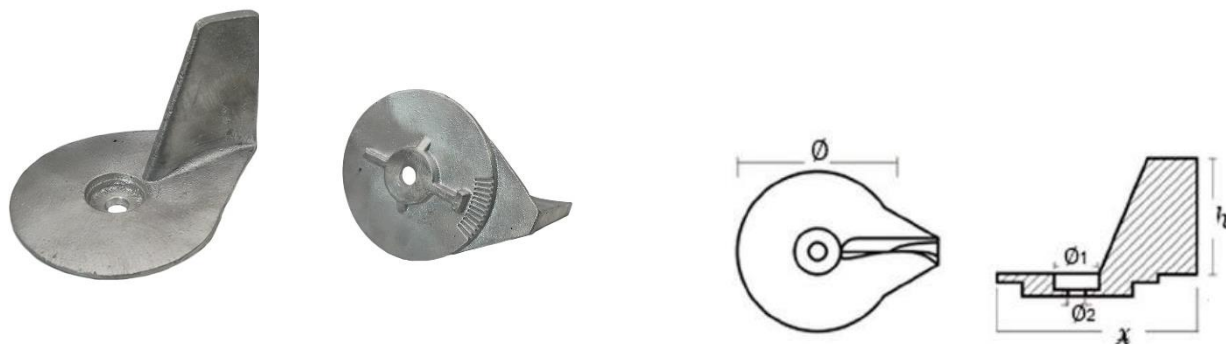
762145; 76214-5; 76214Q5; 76214T1; 76214M



	Ref.	R\$	Kg	Un.	Ø	x	w	a	h
Al	ZM762145Al	62,00	0,120	mm	90	58	7/16"	21	24
Mg	ZM762145Mg	73,00	0,080	in.	3,62"	2,28"	unc	0,83"	0,94"

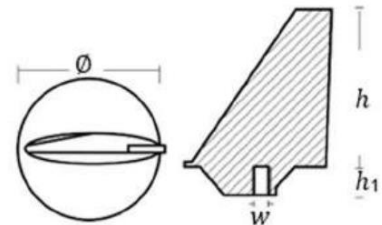
ANODO LEME MERCURY 25-50 HP

AMERICANO 822157



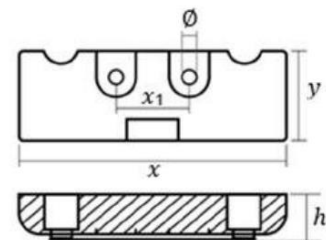
	Ref.	R\$	Kg	Un.	x	Ø	Ø ₁	Ø ₂	h
Zn	ZM822157Zn	78,00	0,413	mm in.	115 4,53"	93 3,66"	24 0,94"	9 0,35"	70 2,76"
Al	ZM822157Al	75,00	0,165						
Mg	ZM822157Mg	87,00	0,110						

ANODO LEME LONGO MERCURY 80 - 140 HP *34127*



	Ref.	R\$	Kg	Un.	w	Ø	h	h ₁
Zn	ZM34127Zn	97,00	0,575	mm in.	7/16" unc	90 3,54"	99 3,90"	17 0,67"
Al	ZM34127Al	94,00	0,230					
Mg	ZM34127Mg	104,00	0,154					

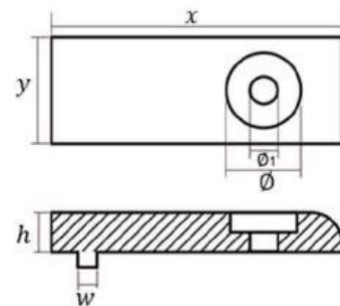
ANODO MERCURY VERADO V6 *880653*



	Ref.	R\$	Kg	Un.	y	x	x ₁	Ø	h
Zn	ZM880653Zn	90,00	0,500	mm in.	44 1,73"	128 5,05"	35 1,38"	7 0,28"	21 0,83"
Al	ZM880653Al	86,00	0,190						
Mg	ZM880653Mg	104,00	0,127						

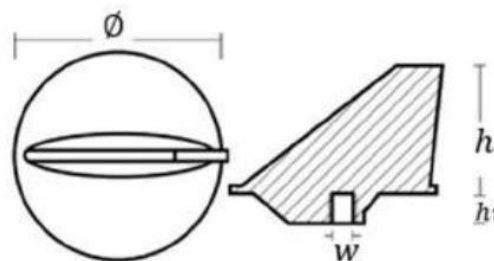
ANODO MERCURY TRIM VERADO 6

892227 / 893404



	Ref.	R\$	Kg	Un.	y	x	w	Ø	Ø ₁	h
Zn	ZM892227Zn	40,00	0,120	mm in.	27 1,06"	74 2,91"	5 0,20"	19 0,75"	7 0,28"	10 0,39"
Al	ZM892227Al	36,00	0,040							
Mg	ZM892227Mg	53,00	0,027							

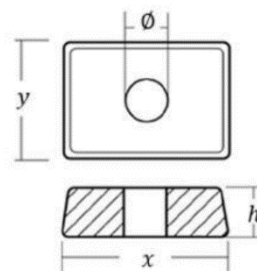
ANODO MERCURY LEME 35 HP + 31640



	Ref.	R\$	Kg	Un.	w	Ø	h	h ₁
Zn	ZM31640Zn	64,00	0,450	mm in.	7/16" unc	95 3,74"	52 2,05"	14 0,55"
Al	ZM31640Al	64,00	0,180					
Mg	ZM31640Mg	79,00	0,120					

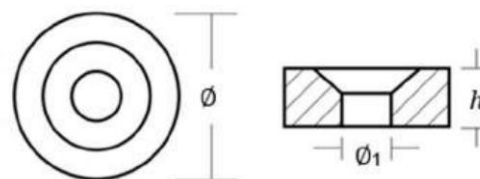
ANODO MERCURY 4 – 9,9 HP

875208 (Compatível com motores de popa Tohatsu 4 - 9,9 HP, p/n 3H6-60218-0)



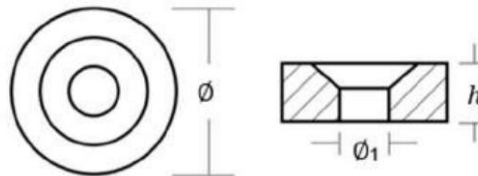
	Ref.	R\$	Kg	Un.	x	y	Ø	h
Zn	ZM875208Zn	26,00	0,025	mm	28	19	6,5	9
Al	ZM875208Al	26,00	0,010	in.	1,10"	0,75"	0,26"	0,35"

ANODO MERCURY 4 - 5 HP 823912



	Ref.	R\$	Kg	Un.	Ø	Ø ₁	h	hp
Zn	ZM823912Zn	23,00	0,02	mm	20	6,5	6,5	4/5
Al	ZM823912Al	23,00	0,01	in.	0,79"	0,26"	0,26"	

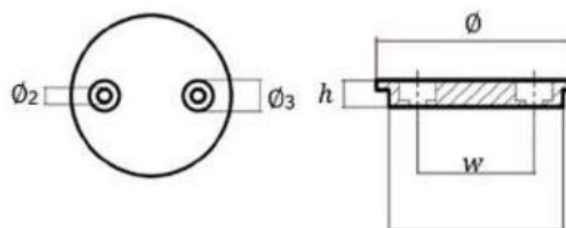
ANODO MERCURY 2.2 - 3.3 HP **823913**



	Ref.	R\$	Kg	Un.	Ø	Ø ₁	h	hp
Zn	ZM823913Zn	26,00	0,04	mm	24	7	6,5	2.2/3.3
Al	ZM823913Al	26,00	0,02	in.	0,94"	0,28"	0,26"	

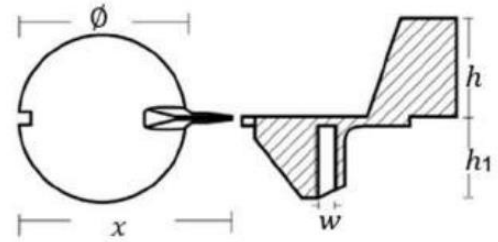
ANODO MERCURY VERADO 350 SCI

847635001



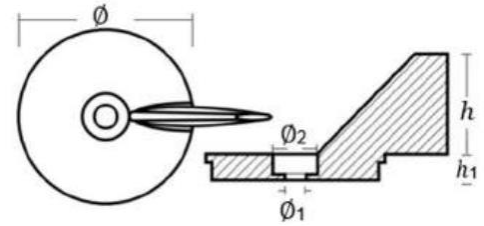
	Ref.	R\$	Kg	Un.	w	Ø	Ø ₁	Ø ₂	Ø ₃	h
Zn	ZM847635001Zn	126,00	0,888	mm	76	129	112	11	24	17
Al	ZM847635001Al	124,00	0,355	in.	2,99"	5,08"	4,41"	0,43"	0,94"	0,67"

ANODO MERCURY LEME 18-25 HP 984325



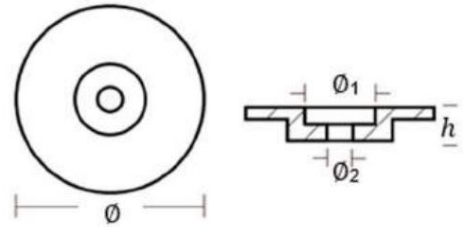
	Ref.	R\$	Kg	Un.	\emptyset	x	w	h	h_1
Zn	ZM984325Zn	90,00	0,420	mm in.	90	114	M8	43	53
Al	ZM984325Al	87,00	0,168		3,54"	4,49"		1,69"	2,09"

ANODO MERCURY LEME 50-75 HP 17264T2



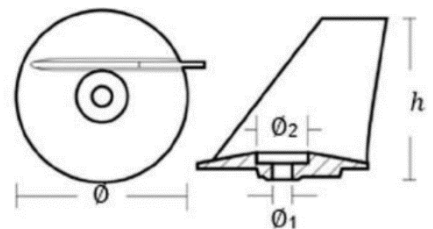
	Ref.	R\$	Kg	Un.	\emptyset	\emptyset_1	\emptyset_2	h	h_1
Zn	ZM17264T2Zn	103,00	0,505	mm in.	103	13	26	24	58
Al	ZM17264T2Al	97,00	0,202						
Mg	ZM17264T2Mg	114,00	0,135						

ANODO DISCO MERCURY 5-15 HP **803731**



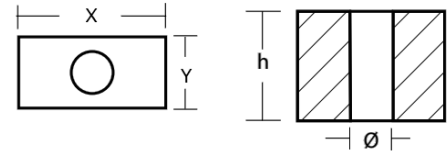
	Ref.	R\$	Kg	Un.	\emptyset	\emptyset_1	\emptyset_2	h
Zn	ZM803731Zn	51,00	0,075	mm	60	18	7	13
Al	ZM803731Al	51,00	0,030	in.	2,36"	0,71"	0,27"	0,51"

ANODO MERCURY LEME 25-40 HP JAPONÊS **853762**



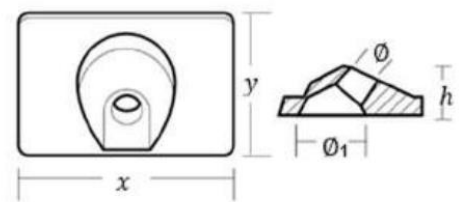
	Ref.	R\$	Kg	Un.	\emptyset	\emptyset_1	\emptyset_2	h
Zn	ZM853762Zn	51,00	0,138	mm	60	7	18	58
Al	ZM853762Al	51,00	0,055	in.	2,36"	0,27"	0,71"	2,28"

ANODO CUBO MERCURY F25EFI - F30EFI **804043**



	Ref.	R\$	Kg	Un.	y	x	Ø	h
Zn	ZM804043Zn	33,00	0,04	mm in.	27 1,06"	13 0,51"	6,5 0,26"	20 0,79"

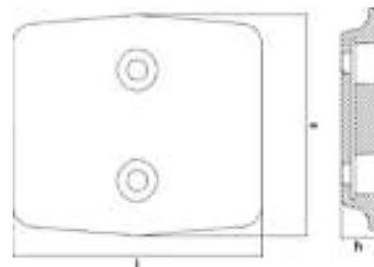
ANODO LATERAL MERCURY 6-15 HP **42121Q02 / 42121A**



	Ref.	R\$	Kg	Un.	y	x	Ø	Ø ₁	h
Zn	ZM42121Q02Zn	42,00	0,07	mm	29	42	7	14	10
Al	ZM42121Q02Al	42,00	0,01	in.	1,14"	1,65"	0,28"	0,55"	0,38"

ANODO MERCURY 175-300HP V6 V8

8M0137814 (3.4L V6 e 4.6L V8 4 tempos)



	Ref.	R\$	Kg	Un.	l	a	h
Zn	ZM8M0137814Zn	145,00	0,735	mm	140	124	21
Al	ZM8M0137814Al	143,00	0,295	in.	5,51"	4,88"	0,83"

KIT VERADO 4 E OPTIMAX



	Ref.	R\$	Kg	Contém:
Al		219,00		2 unid. ZM826134
Mg		304,00		1 unid. ZM762145 1 unid. ZM818298

KIT VERADO 4 SEAPRO



	Ref.	R\$	Kg	Contém:
Al		219,00		2 unid. ZM826134
Mg		304,00		1 unid. ZM762145 1 unid. 8M0057772

KIT VERADO 6



	Ref.	R\$	Kg	Contém:
Al		284,00		4 unid. ZM892227 2 unid. ZM826134 1 unid. ZM880653 1 unid. ZM762145
Mg		393,00		

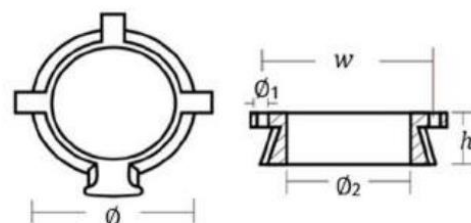
KIT VERADO 4 COM LEME



	Ref.	R\$	Kg	Contém:
Al		219,00		2 unid. ZM826134 1 unid. ZM762145 1 unid. ZM31640
Mg		304,00		

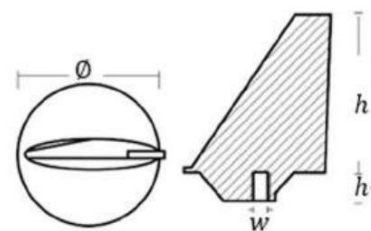
MERCURISER

ANODO CANHÃO DA RABETA 806105



	Ref.	R\$	Kg	Un.	w	Ø	Ø ₁	Ø ₂	h
Al	ZM806105Al	84,00	0,090						
Mg	ZM806105Mg	95,00	0,068						

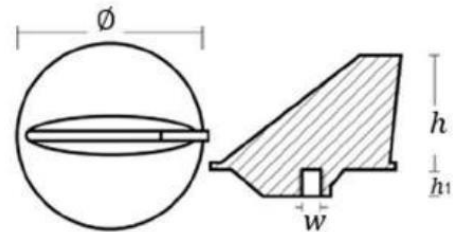
ANODO LEME LONGO MERCURISER 80 - 140 HP 34127



	Ref.	R\$	Kg	Un.	w	Ø	h	h ₁
Zn	ZM34127Zn	97,00	0,575	mm in.	7/16" unc	90 3,54"	99 3,90"	17 0,67"
Al	ZM34127Al	94,00	0,230					
Mg	ZM34127Mg	104,00	0,154					

ANODO MERCUISER LEME 35 HP +

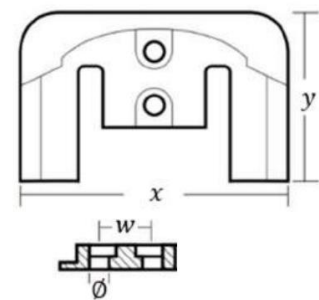
31640



	Ref.	R\$	Kg	Un.	w	\emptyset	h	h ₁
Zn	ZM31640Zn	64,00	0,450	mm in.	1/4" unc	95 3,74"	52 2,05"	14 0,55"
Al	ZM31640Al	64,00	0,180					
Mg	ZM31640Mg	79,00	0,120					

ANODO PLACA BRAVO 3 MERCUISER

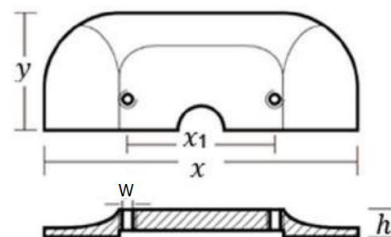
821630



	Ref.	R\$	Kg	Un.	y	x	\emptyset	w
Al	ZM821630Al	98,00	0,360	mm	108	177	11	35
Mg	ZM821630Mg	109,00	0,250	in.	4,25"	6,97"	0,43"	1,38"

ANODO PLACA ALPHA I MERCURISER

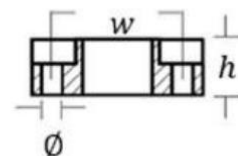
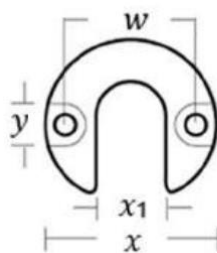
821629



	Ref.	R\$	Kg	Un.	y	x	x ₁	w	h
Al	ZM821629Al	105,00	0,630	mm	72	190	83	1/4	16
Mg	ZM821629Mg	115,00	0,430	in.	2,83"	7,48"	3,27"	UNC	0,63"

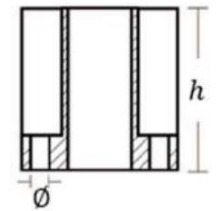
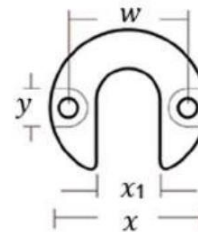
ANODO LIFT-RAM ALPHA I MERCURISER

806189



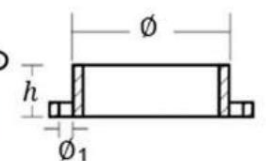
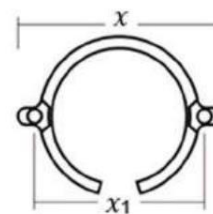
	Ref.	R\$	Kg	Un.	x	x ₁	y	w	Ø	h
Al	ZM806189Al	28,00	0,026	mm	49	21	12	38	5,5	16
Mg	ZM806189Mg	40,00	0,016	in.	1,93"	0,83"	0,47"	1,50"	0,22"	0,63"

ANODO LIFT-RAM BRAVO 3 MERCURISER 806190



	Ref.	R\$	Kg	Un.	x	x_1	y	w	\varnothing	h
Al	ZM806190Al	58,00	0,140	mm	49	21	12	38	5,5	49
Mg	ZM806190Mg	64,00	0,090	in.	1,93"	0,83"	0,47"	1,50"	0,22"	1,93"

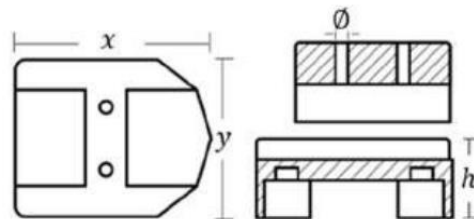
ANODO RABETA BRAVO I MERCURISER 806188



	Ref.	R\$	Kg	Un.	x	x_1	\varnothing	\varnothing_1	h
Al	ZM806188Al	78,00	0,065	mm	88	74	70	5,5	22
Mg	ZM806188Mg	88,00	0,045	in.	3,46"	2,91"	2,76"	0,22"	0,87"

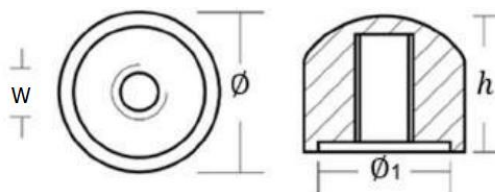
ANODO MERCURISER ALPHA I GIMBAL

82163



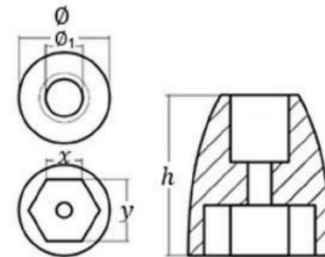
	Ref.	R\$	Kg	Un.	y	x	Ø	h
Al	ZM821631Al	109,00	0,315	mm in.	78	103	6,5	38
Mg	ZM821631Mg	123,00	0,218		3,07	4,06"	0,26"	1,50"

ANODO ALPHA I 55989



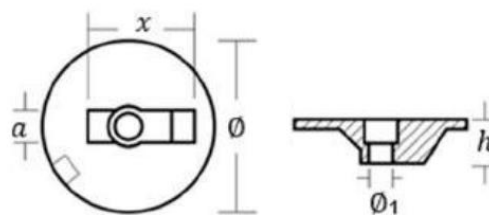
	Ref.	R\$	Kg	Un.	Ø	Ø ₁	w	h
Zn	ZM55989Zn	28,00	0,108	mm in.	31 1,22"	28 1,10"	1/2" unc	30 1,18"
Al	ZM55989Al	28,00	0,045					
Mg	ZM55989Mg	38,00	0,031					

ANODO PONTA DO HÉLICE MERCURISER BRAVO III (2001+) 865182



	Ref.	R\$	Kg	Un.	y	x	Ø	Ø ₁	h
Al	ZM865182Al	92,00	0,160	mm	38	21	54	22	61
Mg	ZM865182Mg	100,00	0,110	in.	1,50"	0,83"	2,13"	0,87"	2,40"

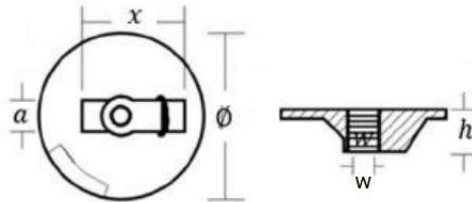
ANODO BRAVO 3 MERCURISER 762144 (S/ROSCA)



	Ref.	R\$	Kg	Un.	Ø	Ø ₁	x	a	h
Al	ZM762144Al	62,00	0,110	mm	90	13	56	16	24
Mg	ZM762144Mg	73,00	0,075	in.	3,62"	0,51"	2,20"	0,63"	0,94"

ANODO DISCO PLANO (C/ROSCA)

762145; 76214-5; 76214Q5; 76214T1; 76214M



	Ref.	R\$	Kg	Un.	Ø	x	w	a	h
Al	ZM762145Al	62,00	0,120	mm	90	58	7/16"	21	24
Mg	ZM762145Mg	73,00	0,080	in.	3,62"	2,28"	unc	0,83"	0,94"

KIT BRAVO I



	Ref.	R\$	Kg	Contém:
Al		260,00		2 unid. ZM806190 1 unid. ZM762145
Mg		304,00		1 unid. ZM821630 1 unid. ZM806188

KIT BRAVO II BRAVO III



	Ref.	R\$	Kg	Contém:
Al		234,00		2 unid. ZM806190 1 unid. ZM762145
Mg		291,00		1 unid. ZM821630

KIT BRAVO III (2004+)



	Ref.	R\$	Kg	Contém:
Al		309,00	0,990	2 unid. ZM806190 1 unid. ZM762145 1 unid. ZM821630 1 unid. ZM762144 1 unid. ZM865182
Mg		363,00	0,645	

KIT ALPHA I



	Ref.	R\$	Kg	Contém:
Al		192,00		2 unid. ZM55989 1 unid. ZM821631 1 unid. ZM31640
Mg		218,00		

KIT ALPHA I GERAÇÃO II

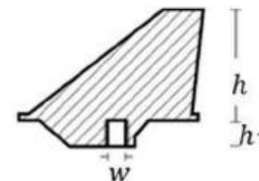
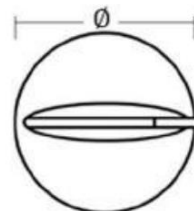


	Ref.	R\$	Kg	Contém:
Al		285,00		2 unid. ZM806189 1 unid. ZM821631 1 unid. ZM806105
Mg		349,00		1 unid. ZM821629 1 unid. ZM762145

HONDA

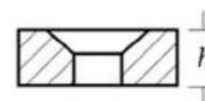
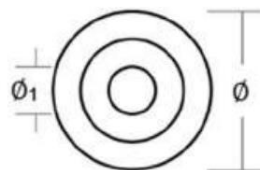
ANODO DIRECIONAL HONDA

41107ZW1003ZA/31640



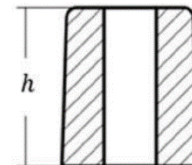
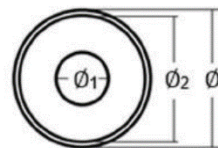
	Ref.	R\$	Kg	Un.	Ø	w	h	h ₁
Zn	ZM41107ZW1003ZAZn	64,00	0,450	mm in.	91 3,58"	7/16"	61 2,40"	19 0,75"
Al	ZM41107ZW1003ZAAI	64,00	0,180					
Mg	ZM41107ZW1003ZAMg	79,00	0,120					

ANODO HONDA 8-20 HP 41106ZW000



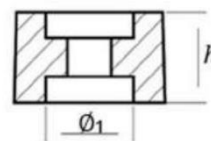
	Ref.	R\$	Kg	Un.	Ø	Ø ₁	h
Zn	ZM4106ZW000Zn	23,00	0,020	mm in.	24 0,94"	6,35 0,25"	6,35 0,25"
Al	ZM4106ZW000AI	23,00	0,008				

ANODO HONDA BF 8-40HP *12155ZV4A00*



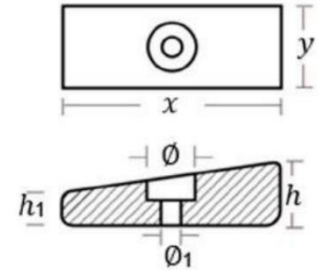
	Ref.	R\$	Kg	Un.	Ø	Ø ₁	Ø ₂	h
Zn	ZM12155ZV4A00Zn	26,00	0,012	mm	13	5,5	12	16
Al	ZM12155ZV4A00Al	26,00	0,006	in.	0,51"	0,22"	0,47"	0,63"

ANODO HONDA BF 75-130HP *12155ZV5000*



	Ref.	R\$	Kg	Un.	Ø	Ø ₁	h
Zn	ZM12155ZV5000Zn	35,00	0,030	mm	24	14	14
Al	ZM12155ZV5000Al	35,00	0,010	in.	0,55"	0,55"	0,55"

ANODO HONDA BF 75-90HP (1997-1998) 41109ZW1003

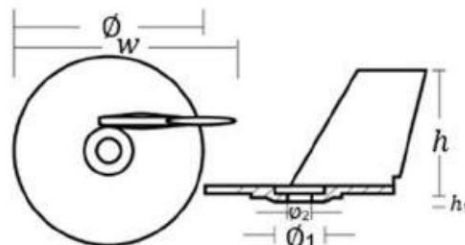


	Ref.	R\$	Kg	Un.	x	y	ϕ	ϕ_1	h	h_1
Zn	ZM41109ZW1003Zn	42,00	0,245	mm in.	77	30	17	7	22	12
Al	ZM41109ZW1003Al	40,00	0,094		3,03"	1,18"	0,67"	0,28"	0,87"	0,47"
Mg	ZM41109ZW1003Mg	58,00	0,062							

SUZUKI

ANODO DIRECIONAL MOTOR

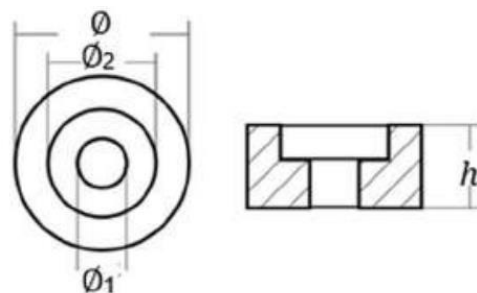
SUZUKI 20-35 HP 5512596310



	Ref.	R\$	Kg	Un.	Ø	Ø ₁	Ø ₂	w	h	h ₁
Zn	ZM5512596310Zn	90,00	0,140	mm in.	70 2,76"	17 0,67"	8,5 0,33"	82 3,23"	48 1,89"	4 0,16"
Al	ZM5512596310Al	87,00	0,057							
Mg	ZM5512596310Mg	99,00	0,040							

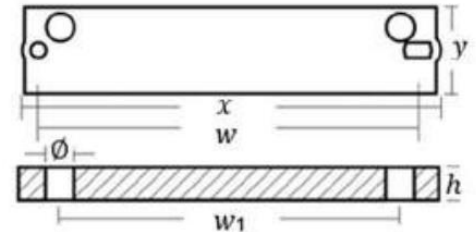
ANODO MOTORES SUZUKI 5532187J00

Johnson-Evinrude 2-6 / 25-225 Hp



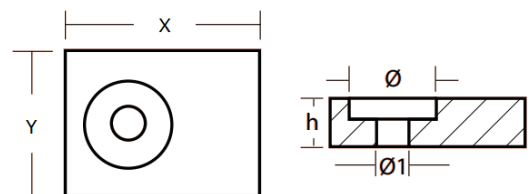
	Ref.	R\$	Kg	Un.	Ø	Ø ₁	Ø ₂	h
Zn	ZM5532187J00Zn	32,00	0,035	mm in.	21 0,83"	6 0,24"	13 0,51"	10 0,39"
Al	ZM5532187J00Al	32,00	0,015					

ANODO DO CAVALETE MOTOR SUZUKI 60-300 HP *5532094900*



	Ref.	R\$	Kg	Un.	x	y	w	w1	Ø	h
Zn	ZM5532094900Zn	96,00	0,487	mm	196	40	176	160	6,5	14
Al	ZM5532094900Al	95,00	0,195	in.	7,67"	1,57"	6,92"	6,29"	0,25"	0,55"

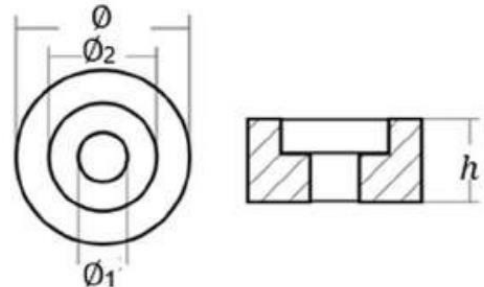
ANODO SUZUKI *55320-95310*



	Ref.	R\$	Kg	Un.	x	y	Ø	Ø ₁	h
Zn	ZM5532095310Zn	41,00	0,080	mm	40	30	17	6,5	12
Al	ZM5532095310Al	41,00	0,030	in.	1,57"	1,18"	0,67"	0,26"	0,47"

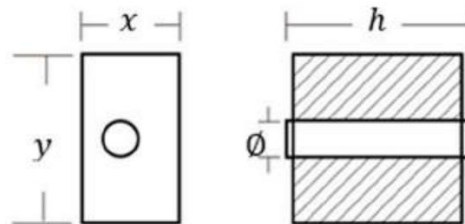
JOHNSON/EVINRUDE

ANODO JOHNSON/EVINRUDE 2-6 / 25-225 Hp 5031705



	Ref.	R\$	Kg	Un.	Ø	Ø ₁	Ø ₂	h
Zn	ZM5031705Zn	32,00	0,035	mm	21	6	13	10
Al	ZM5031705Al	32,00	0,015	in.	0,83"	0,24"	0,51"	0,39"

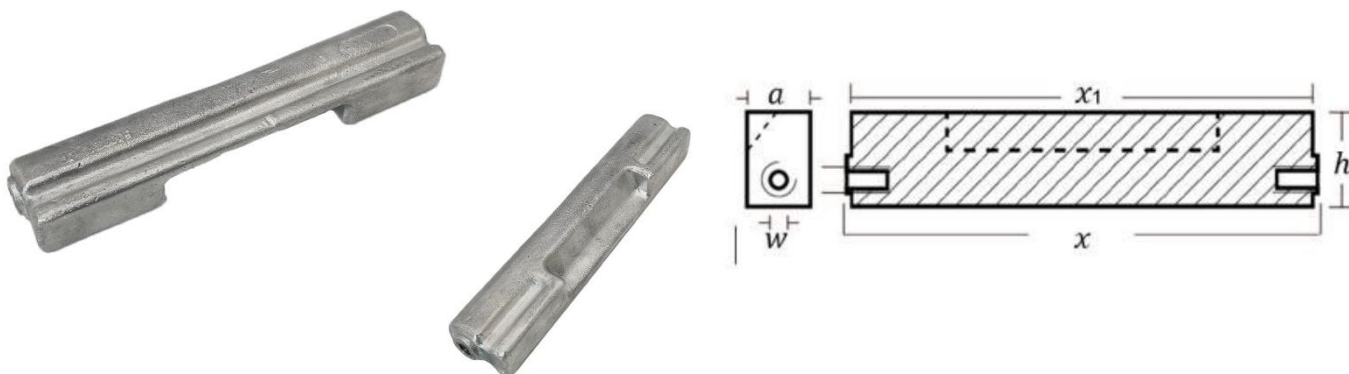
ANODO EVINRUDE/JOHNSON 393023 – 0436745 OMC 50-140 / Johnson – Evinrude 50-225HP (1987-1998)



	Ref.	R\$	Kg	Un.	x	y	Ø	h
Zn	ZM393023Zn	71,00	0,213	mm	25	40	8	41
Al	ZM393023Al	71,00	0,085	in.	0,98"	1,57"	0,31"	1,61"

ANODO EVINRUDE/JOHNSON

CAVALETE E-TEC 60-300 HP 5007089



	Ref.	R\$	Kg	Un.	x	x ₁	w	a	h
Zn	ZM5007089Zn	160,00	0,588	mm	172	165	M8	21	34
Al	ZM5007089Al	160,00	0,235	in.	2,95"	1,97"		0,87"	1,57"

ANODO LATERAL (OMC/JOHNSON

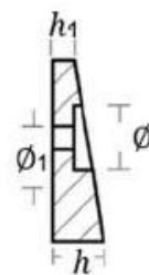
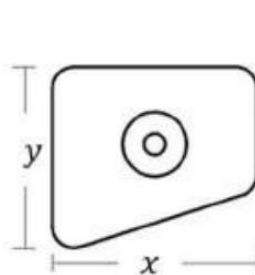
EVINRUDE) 173029-123009-327606



	Ref.	R\$	Kg	Un.	x	y	w	a	h
Zn	ZM123009Zn	43,00	0,075	mm	60	23	M5	25	12
Al	ZM123009Al	43,00	0,030	in.	2,36"	0,91"		0,98"	0,47"

ANODO EVINRUDE JOHNSON 25-35 HP

434029



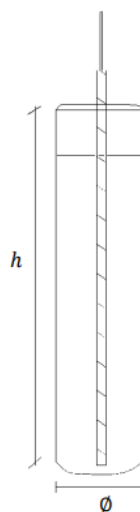
	Ref.	R\$	Kg	Un.	x	y	Ø	Ø ₁	h	h ₁
Zn	ZM434029Zn	87,00	0,187	mm	49	41	14	6	12	6
Al	ZM434029Al	87,00	0,075	in.	1,92"	1,61"	0,55"	0,24"	0,47"	0,24"

KIT JOHNSON EVINRUDE MOTOR DE POPA LINHA E-TEC + 40 HP



	Ref.	R\$	Kg	Contém:
Zn		226,00		1 unid. ZM500924100 1 unid. ZM393023
Al		226,00		

ANODO SUSPENSO



	Ref.	R\$	Kg	Un.	\varnothing	h
Al	ZMASAI	304,00	1,200	mm in.	50,8 2"	203 8"

Anodos suspensos em Liga de Alumínio com cabo de aço galvanizado revestido em vinil, 5 metros de comprimento e terminal para ligação no aterramento da embarcação.

O anodo suspenso é muito comum para a proteção em docas e marinas, eles podem estender a vida útil de seus anodos de eixo e ponta de eixo, quando conectados ao sistema de aterramento da embarcação e colocados na água.

São recomendados para proteção contra a corrosão em todos os tipos de embarcações.

TERMINAL



	Ref.	R\$	Kg
Pb	ZMTBE	35,00	0,315
<i>Conjunto de terminais de chumbo positivo e negativo com parafuso do poste com encaixe na peça</i>			



	Ref.	R\$	Kg
Pb	ZMTBF	35,00	0,315
<i>Conjunto de terminais de chumbo positivo e negativo com parafuso do poste fundido na peça</i>			

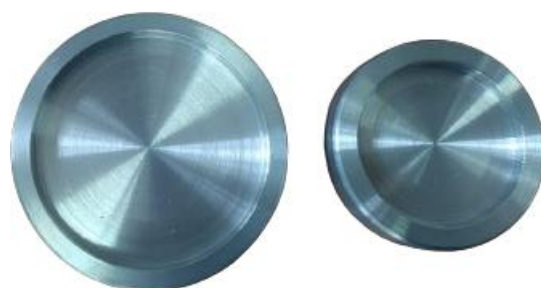
O terminal é um tipo de dispositivo de fixação. Seu objetivo é fornecer uma conexão sólida entre as duas extremidades da fiação entre si ou em uma fonte de energia.

CADINHO DE ZINCO



	Ref.	R\$	Kg	Un.	\emptyset	\emptyset_1	<i>h</i>	<i>h</i> ₁
Zn	ZMCFGZn	70,00	0,800	mm	97	72	20	7

CADINHO DE ZINCO RAIADO



	Ref.	R\$	Kg	Un.	\emptyset	\emptyset_1	<i>h</i>	<i>h</i> ₁
Zn	ZMCRGZn	99,00	0,680	mm	91	77	19,5	7
Zn	ZMCRPZn	87,00	0,330		71	53,5	16	5

O cadinho de zinco produzido pela Zigmo, utiliza zinco SHG (Special High Grade) com 99,95% de zinco.

ANODO DE AQUECEDORES DE ÁGUA



	Ref.	R\$	Un.	Comp.	Ø	PLUG
Mg	ZMAQ500Mg	125,00	mm in.	125 4,92"	50 1,96"	1 1/8" X 3/4" NPT
Mg	ZMAQ750Mg	145,00	mm in.	130 5,11"	80 3,14"	1 1/8" X 3/4" NPT
Mg	ZMAQ800Mg	145,00	mm in.	140 5,51"	48 1,88"	1 1/8" X 3/4" NPT
Mg	ZMAQ1000Mg	155,00	mm in.	148 5,82"	48 1,88"	1 1/8" X 3/4" NPT
Mg	ZMAQ1500Mg	180,00	mm in.	150 5,90"	100 3,93"	1 1/8" X 3/4" NPT

***Produzimos todas as medidas de anodos APCE-ZM, anodos de casco e anodos de eixos.
Caso não tenha no catálogo, nos solicite uma cotação com o tamanho desejado!***

Para mais informações entre em contato!

Lincoln Fiorelli

Tel.: (24) 98816-4610 / (24) 98844-1060

lincoln@zigmo.com.br Eng. Metalúrgico

www.zigmo.com.br

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CEP: 25821-150***