CATÁLOGO

ZIGMO

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 ocasionandoelevados 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 à 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 praticávelentre o anodo de sacrifício e o metal à 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 SPECICICATION (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%.

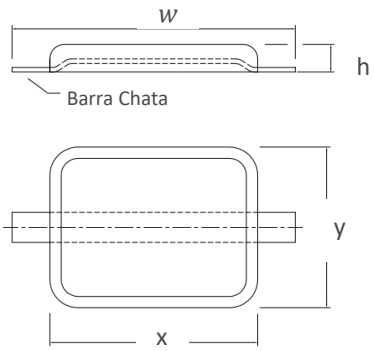
LIGAS DE MAGNÉSIO

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

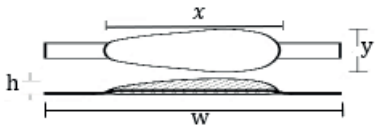

A Zigmo é a
maior
fabricante
do setor
náutico
do Brasil
ZIGMO

ANODO APCE/ZM



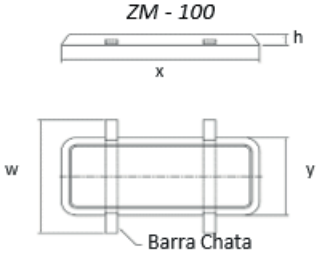
	Ref.	R$	Kg	Un.	x	y	h	w	Barra Chata
Zn	ZMZM6Zn		0,650	mm	100	46	21	148	12,7 x 3,18
Al	ZMZM6Al		0,242	in.	3,93”	1,81”	0,83”	5,83”	12/7” x 1/8”
Zn	ZMZM10Zn		1,015	mm	115	75	20	200	19,05 x 4,76
Al	ZMZM10Al		0,406	in.	4,52”	2,95”	0,78”	7,87”	3/4“ x 3/16”
Zn	ZMZM25Zn		2,380	mm	215	68	31	315	22,23 x 4,76
Al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

ZM - 22



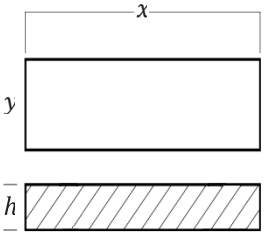
Zn	ZMZM22Zn		2,280	mm	220	73	30	305	19,05 x 4,76
Al	ZMZM22Al		0,912	In.	8,66”	2,87”	1,18”	12”	3/4“ x 3/16”

ZM - 100



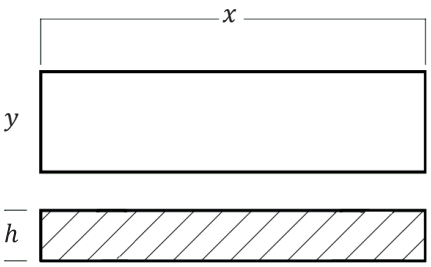
Zn	ZMZM100Zn		10,220	mm	295	150	41	250	31,75 x 4,76
Al	ZMZM100Al		4,080	In.	11,6”	5,9”	1,18”	9,84”	1.1/4 x 3/16”

ANODO OCEANIC 32



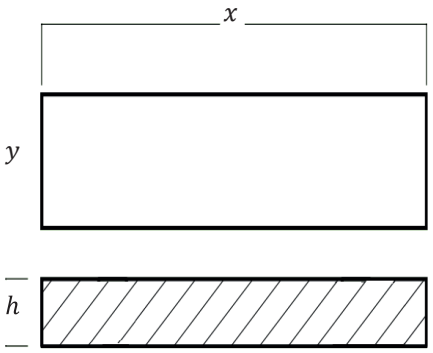
	Ref.	R$	Kg	Un.	x	y	h
Zn	ZMO32Zn		1,460	mm	150	75	20
Al	ZMO32Al		0,584	in.	5,90”	2,95”	0,78”

ANODO OCEANIC 40



	Ref.	R$	Kg	Un.	x	y	h
Zn	ZMO40Zn		3,190	mm	245	75	25
Al	ZMO40Al		1,276	in.	9,64”	2,95”	0,98”

ANODO PLACA



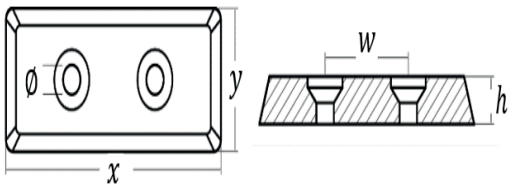
	Ref.	R$	Kg	Un.	x	y	h
Zn	ZM12,5x5x1,5Zn		0,675	mm	125	50	15
Al	ZM12,5x5x1,5Al		0,270	in.	4,92”	1,96”	0,59”
Zn	ZM13x8Zn		1,350	mm	130	80	18
Al	ZM13x8Al		0,550	in.	5,11”	3,14”	0,71”
Zn	ZM140x43X16Zn		1,451	mm	140	48	30
Al	ZM140x43X16Al		0,580	in.	5,51”	1,88”	1,18”
Zn	ZM148x48X30Zn		1,534	mm	148	48	30
Al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

ANODO MARES 30/45

Lemes:

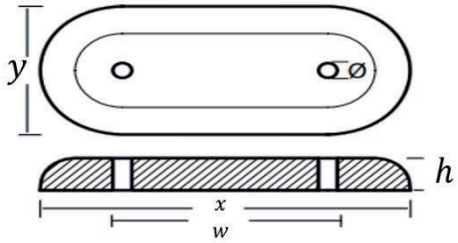
	Ref.	R$	Kg	Un.	x	y	h
Zn	ZMM30LZn		0,680	mm	80	69	15
Al	ZMM30LAl		0,480	In.	3,14”	2,71”	0,59”
Zn	ZMM45LZn		1,200	mm	207	69	15
Al	ZMM45LAl		0,480	In.	8,14”	2,71”	0,59”

Cascos:



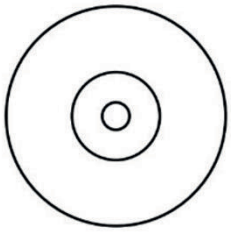
	Ref.	R$	Kg	Un.	x	y	w	ø	h
Zn	ZMM30CZn		0,650	mm	100	50	47	25	23
Al	ZMM30CAl		0,260	In.	3,93”	1,96”	1,85”	0,98”	0,90”
Zn	ZMM45CZn		1,700	mm	154	102	75	25	17
Al	ZMM45CAl		0,680	In.	6,06”	4,01”	2,95”	0,98”	0,66”

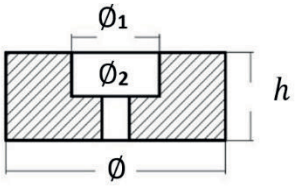
ANODO PLACA DE POPA FERRETTI 55



	Ref.	R$	Kg	Un.	x	y	h	ø	w
Zn	ZMFP55Zn		1,720	mm	205	65	30	13	105
Al	ZMFP55Al		0,688	In.	8,07”	2,56”	1,18”	0.51”	3,94”

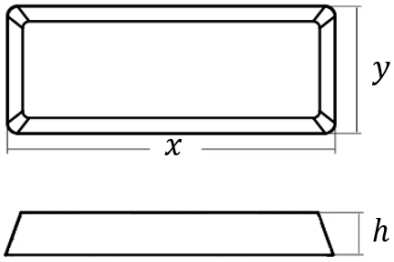
ANODO CASCO AZIMUT 58/60/62





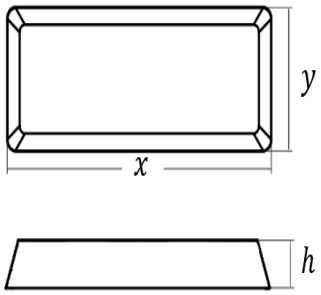
	Ref.	R$	Kg	Un.	ø	ø1	ø2	h
Zn	ZMAC60Zn		4,455	mm	123	44	16	53
Al	ZMAC60Al		1,178	in.	4,85”	1,73”	0,63”	2,08”

ANODO PLACA PHANTOM *TRAPEZOIDAL*



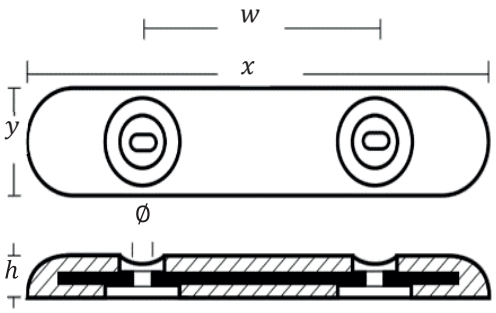
	Ref.	R$	Kg	Un.	x	y	h
Zn	ZMPHTZn		0,470	**mm**	**125**	**43**	**14**
Al	ZMPHTAl		0,188	in.	4,92”	1,69”	0,55”

ANODO BLADE



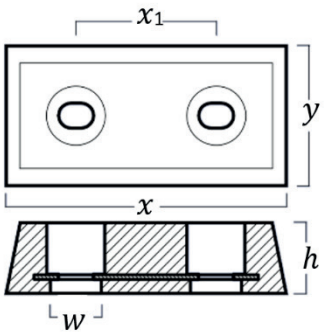
	Ref.	R$	Kg	Un.	x	y	h
Zn	ZMBGZn		0,700	**mm**	**122**	**40**	**20**
Al	ZMBGAl		0,281	in.	4,80””	1,57”	0,78”
	Ref.		**Kg**	**Un.**	**x**	**y**	**h**
Zn	ZMBPZn		0,445	**mm**	**81**	**40**	**20**
Al	ZMBPAl		0,178	in.	3,19”	1,57”	0,78”

ANODO PRINCESS/FAIRLINE



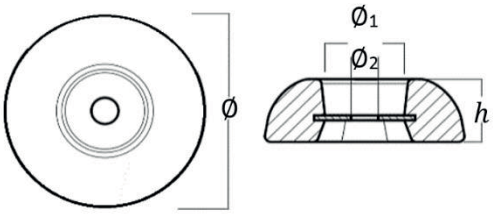
	Ref.	R$	Kg	Un.	x	y	w	h	Ø
Zn	ZMCFLZn		14,140	mm	450	100	230	65	30x18
Al	ZMCFLAl		5,656	in.	17,7”	3,93”	9,05”	2,55”	1,18” x 0,70”

ANODO PLATAFORMA DE POPA PRINCESS



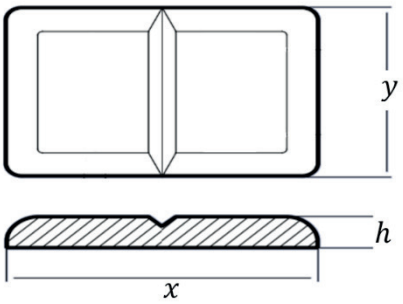
	Ref.	R$	Kg	Un.	x	y	x1	w	h
Zn	ZMCPFZn		5,075	mm	200	100	100	30x18	50
Al	ZMCPFAl		2,030	in.	7,87”	3,94”	3,94”	1,18”x0,70”	1,97”

ANODO FLAP PRINCESS



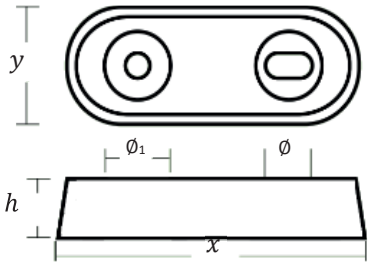
	Ref.	R$	Kg	Un.	h	Ø	Ø1	Ø2
Zn	ZMFPZn		2,925	mm	42	150	39	16
Al	ZMFPAl		1,170	in.	1,65”	5,90”	1,53”	0,62”

ANODO PLACA DE LEME



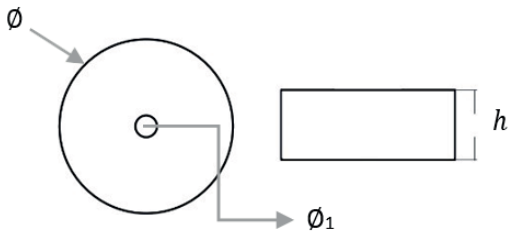
	Ref.	R$	Kg	Un.	x	y	h
Zn	ZMPLZn		0,750	mm	122	78	12
Al	ZMPLAl		0,300	in.	4,80”	3,07”	0,47”

ANODO PLATAFORMA DE POPA INTERMARINE



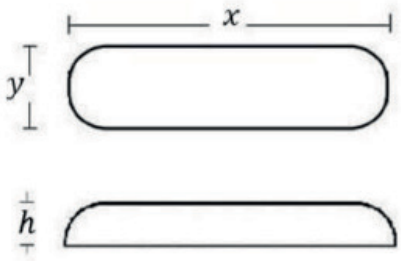
	Ref.	R$	Kg	Un.	x	y	h	Ø	Ø1
Zn	ZMPPIZn		0,920	mm	150	60	25	11	11X15
Al	ZMPPIAl		0,360	in.	5,91"	2,36"	0,98"	0,43"	0,43"X 0,59"

ANODO CASCO INTERMARINE



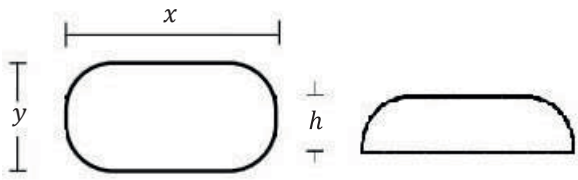
	Ref.	R$	Kg	Un.	Ø	Ø1	h
Zn	ZMCIZn		4,465	mm	131	14	50
Al	ZMCIAl		1,786	in.	5,16"	0,55"	1,97"

ANODO CASCO OVALADO



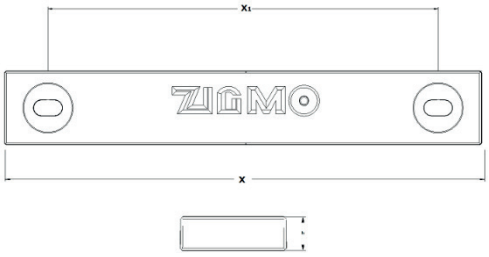
	Ref.	R$	Kg	Un.	x	y	h
Zn	ZMCOZn		2,462	mm	200	87	29
Al	ZMCOAl		0,985	in.	7,87”	3,42”	1,14”

ANODO CASCO/FLAP/LEME



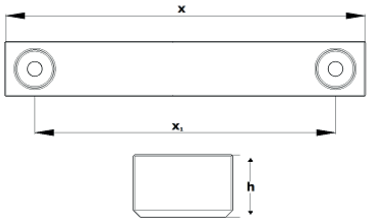
	Ref.	R$	Kg	Un.	x	y	h
Zn	ZMCZn		0,980	mm	111	75	20
Al	ZMCAl		0,392	in.	4,37”	2,95”	0,79”

ANODO VELEIRO FAST 345/360



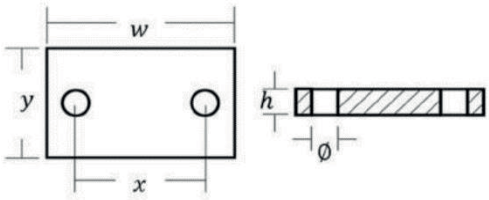
	Ref.	R$	Kg	Un.	x	x_1	y	h
Zn	*ZMVF345Zn*		*1,400*	***mm***	***291***	***240***	***44***	***15***
Al	*ZMVF345Al*		*0,560*	*in.*	*11,45”*	*9,45”*	*1,73”*	*0,59”*

ANODO VELEIRO FAST 395



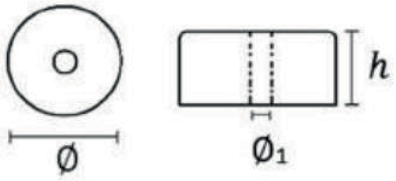
	Ref.	R$	Kg	Un.	x	x_1	y	h
Zn	*ZMVF395Zn*		*1,400*	***mm***	***284***	***238***	***43***	***27***
Al	*ZMVF395Al*		*0,560*	*in.*	*11,45”*	*9,37”*	*1,70”*	*1,09”*

ANODO FOCKER CASCO RETANGULAR



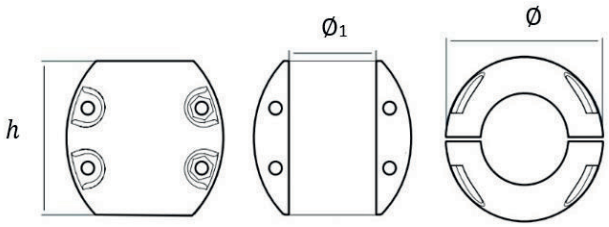
	Ref.	R$	Kg	Un.	w	y	x	ø	h
Zn	ZMFMRZn		0,770	mm	110	66	55	14	16
Al	ZMFMRAl		0,308	in.	4,33”	2,56”	2,16”	0,55”	0,63”

ANODO FOCKER CASCO CIRCULAR



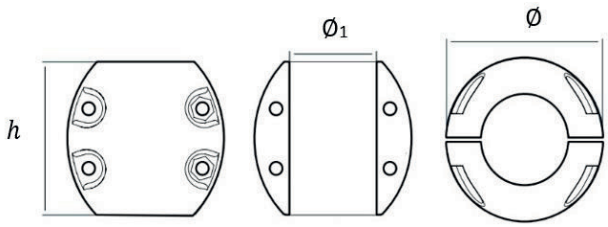
	Ref.	R$	Kg	Un.	ø	ø1	h
Zn	ZMFMCZn		0,440	mm	60	11	23
Al	ZMFMCAl		0,176	in.	2,36”	0,43”	0,91”

ANODO DE EIXO



	Ref.	R$	Kg	Un.	Ø1	Ø	h
Zn	ZME3/4Zn		0,510	In.	¾"	55 mm	54 mm
Al	ZME3/4Al		0,204				
Zn	ZME7/8Zn		0,510	In.	7/8"	55 mm	54 mm
Al	ZME7/8Al		0,204				
Zn	ZME1Zn		0,420	In.	1"	56 mm	55 mm
Al	ZME1Al		0,168				
Zn	ZME125Zn		0,560	in.	1 ¼"	63 mm	60 mm
Al	ZME125Al		0,224				
Zn	ZME15Zn		0,770	in.	1 ½"	70 mm	67 mm
Al	ZME15Al		0,308				
Zn	ZME175Zn		1,020	in.	1 ¾"	81 mm	67 mm
Al	ZME175Al		0,408				
Zn	ZME2Zn		1,410	in.	2"	90 mm	73 mm
Al	ZME2Al		0,564				
Zn	ZME218Zn		1,410	in.	2 1/8"	90 mm	73 mm
Al	ZME218Al		0,564				
Zn	ZME225Zn		1,200	in.	2 ¼"	107 mm	73 mm
Al	ZME225Al		0,480				
Zn	ZME25Zn		2.400	in.	2 ½ "	107 mm	93 mm
Al	ZME25Al		0,940				
Zn	ZME275Zn		3,200	in.	2 ¾"	112 mm	93 mm
Al	ZME275Al		1,250				
Zn	ZME3Zn		3,260	in.	3"	122 mm	96 mm
Al	ZME3Al		1,300				
Zn	ZME325Zn		5,000	in.	3 ¼"	143 mm	95 mm
Al	ZME325Al		2,000				
Zn	ZME3-5Zn		3,080	in.	3 ½"	130 mm	95 mm
Al	ZME3-5Al		1,232				
Zn	ZME4Zn		5,200	in.	4"	101,6 mm	120 mm
Al	ZME4Al		2,080				
Zn	ZME4-5Zn		5,200	in.	4 ½"	114,3 mm	120 mm
Al	ZME4-5Al		2,080				

ANODO DE EIXO

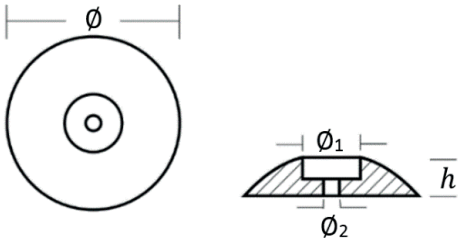


	Ref.	R$	Kg	Un.Ø1	Ø1	Ø	h
Zn	ZME30Zn		0,600	mm	30 mm	56 mm	55 mm
Al	ZME30Al		0,240				
Zn	ZME35MMZn		0,480	mm	35 mm	56 mm	60 mm
Al	ZME35MMAl		0,192				
Zn	ZME45Zn		1,020	mm	45 mm	81 mm	67 mm
Al	ZME45Al		0,408				
Zn	ZME50Zn		1,410	mm	50 mm	90 mm	73 mm
Al	ZME50Al		0,564				
Zn	ZME54Zn		1,410	mm	54 mm	90 mm	73 mm
Al	ZME54Al		0,564				
Zn	ZME60Zn		2,500	mm	60 mm	107 mm	93 mm
Al	ZME60Al		1,000				
Zn	ZME65Zn		2,200	mm	65 mm	107 mm	93 mm
Al	ZME65Al		0,880				
Zn	ZME70Zn		3,260	mm	70 mm	122 mm	96 mm
Al	ZME70Al		1,304				
Zn	ZME75Zn		3,290	mm	75 mm	122 mm	96 mm
Al	ZME75Al		1,320				
Zn	ZME80Zn		5,31O	mm	80 mm	150 mm	96 mm
Al	ZME80Al		2,124				
Zn	ZME85Zn		5,01O	mm	85 mm	150 mm	96 mm
Al	ZME85Al		2,024				
Zn	ZME90Zn		4,910	mm	90 mm	150 mm	96 mm
Al	ZME90Al		1,924				

Produzimos todas as medidas de anodos de eixos.

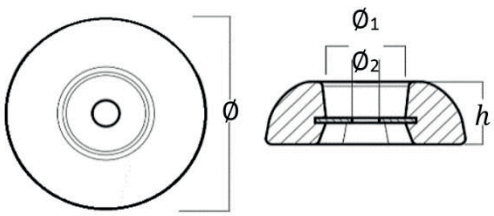
Caso não tenha no catálogo, nos solicite uma cotação com o tamanho desejado!

ANODO DE FLAP



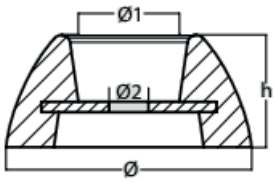
	Ref.	R$	Kg	Un.	Ø	Ø1	Ø2	h
Zn	ZMFPZn		0,140	mm	50	21	7,5	16
Al	ZMFPAl		0.070	in.	1,97”	0,83”	0,30”	0,63”
Zn	ZMFMZn		0,300	mm	70	22	8,5	17
Al	ZMFMAl		0,145	in.	2,76”	0,87”	0,33”	0,67”
Zn	ZMFGZn		0,900	mm	110	31	12	22
Al	ZMFGAl		0,420	in.	4,33”	1,22”	0,47”	0,87”
Zn	ZMF80Zn		1,050	mm	100	36	10	30
Al	ZMF80Al		0,420	in.	3,94”	1,41”	0,39”	1,18”
Zn	ZMF100Zn		0,780	mm	100	31	12	22
Al	ZMF100Al		0,312	in.	3,94”	1,22”	0,47”	0,86”
Zn	ZMF125Zn		1,170	mm	122	31	10	23
Al	ZMF125Al		0,468	in.	4,80”	1,22”	0,39”	0,90”
Zn	ZMF125FZn		1,170	mm	122	31	10	23
Al	ZMF125FAl		0,468	in.	4,80”	1,22”	0,39”	0,90”

ANODO FLAP MEIA LUA/ CASCO SESSA



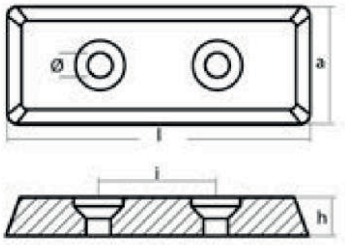
	Ref.	R$	Kg	Un.	h	Ø	Ø1	Ø2
Zn	ZMMLFZn		0,920	mm	30	110	33	14
Al	ZMMLFAl		0,368	in.	1,18”	4,33”	1,30”	0,55”

ANODO FLAP ALTO



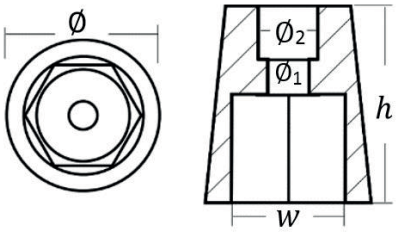
	Ref.	R$	Kg	Un.	*h*	Ø	$Ø_1$	$Ø_2$
Zn	*ZMFAZn*		*0,437*	***mm***	***25***	***70***	***33***	***9***
Al	*ZMFAAl*		*0,175*	*in.*	*0,98”*	*2,75”*	*1,30”*	*0,35”*

ANODO FLAP INTERMARINE



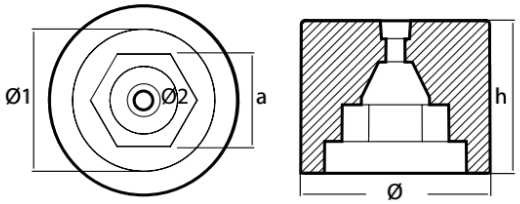
	Ref.	R$	Kg	Un.	*h*	a	Ø	i	I
Zn	*ZMFIZn*		*0,450*	***mm***	***23***	***43***	***10***	***50***	***103***
Al	*ZMFIAl*		*0,180*	*in.*	*0,90”*	*1,69”*	*0,39”*	*1,96”*	*4,05”*

ANODO PONTA DE EIXO AZIMUT



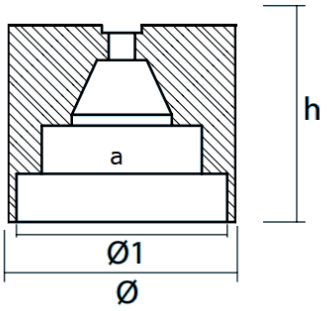
	Ref.	R$	Kg	Un.	Ø	Ø1	Ø2	w	h
Zn	ZMA40Zn		0,460	mm in.	51 2.01”	9 0.35”	15 0.59”	36 1.42”	67 2.64”
Zn	ZMA45Zn		0,775	mm in.	61 2.40”	11 0.43”	22 0,87”	41 1.61”	76 2,99”
Zn	ZMA50Zn		1,010	mm in.	72 2,83”	11 0,43”	21 0,83”	46 1,81”	84 3,31”
Zn	ZM50.2Zn			mm in.	87 3,42”			67 2,63”	75 2,95”
Zn	ZMA60Zn		1,655	mm in.	82 3,23”	11 0,43”	21 0,83”	55 2,17”	98 3,86”
Zn	ZMA70/80/83Zn		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



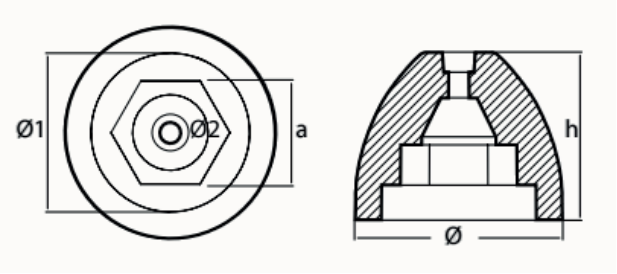
	Ref.	R$	Kg	Un.	a	h	Ø	Ø1	Ø2
Zn	ZMF155Zn		9,200	mm	75	116	143	125	15,5
Al	ZMF155Al		3,680	in.	2,95”	4,46”	6,10”	4,92”	0,61”

ANODO PONTA DE EIXO FERRETTI 155 CIRCULAR



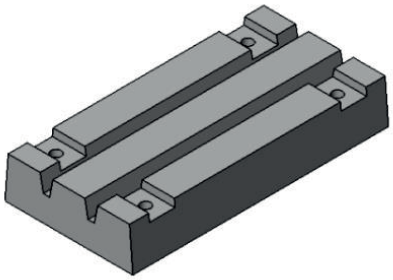
	Ref.	R$	Kg	Un.	a	*h*	Ø	$Ø_1$	$Ø_2$
Zn	*ZMF155Zn*			***mm***	***100***	***116***	***143***	***125***	***15,5***
Al	*ZMF155Al*			*in.*	*3,15”*	*4,46”*	*6,10”*	*4,92”*	*0,61”*

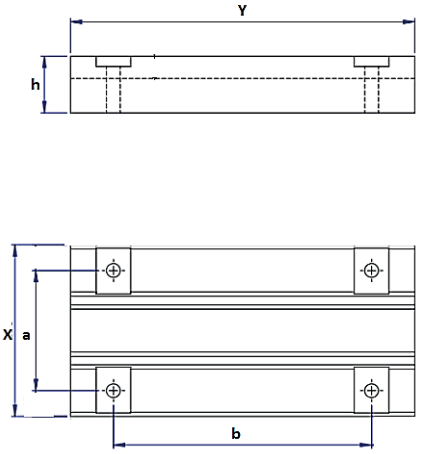
ANODO PONTA DE EIXO FERRETTI 155 HYDRO



	Ref.	R$	Kg	Un.	a	*h*	Ø	$Ø_1$	$Ø_2$
Zn	*ZMF155HZn*			***mm***	***75***	***125***	***155***	***116***	***14,5***
Al	*ZMF155HAl*			*in.*	*2,95”*	*4,92”*	*6,10”*	*4,57”*	*0,57”*

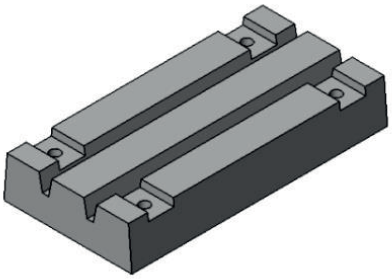
ANODO FERRETTI LIFT H+B 550

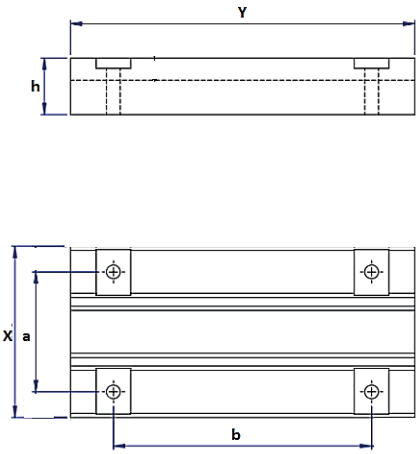




	Ref.	R$	Kg	Un.	a	h	b	x	y
Zn	ZMHB5505Zn		3,960	mm in.	70 2,75”	33 1,29”	150 5,90”	100 3,15”	200 7,87”

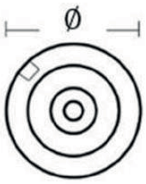
ANODO FERRETTI LIFT H+B 850

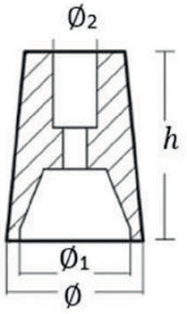




	Ref.	R$	Kg	Un.	a	h	b	x	y
Zn	ZMHB8505Zn		5,600	mm in.	82 3,22”	33 1,29”	150 5,90”	115 4,52”	230 9,05”

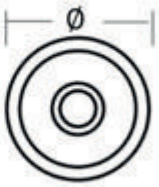
ANODO PONTA DE EIXO FERRETTI

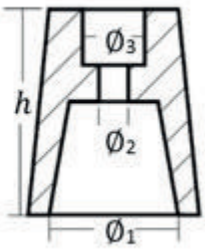




	Ref.	R$	Kg	Un.	Ø	Ø1	Ø2	h
ZN	ZMF40Zn		0,585	mm in.	51 2”	35 1,37”	17 0,67”	67 2,63”
ZN	ZMF45Zn		0,530	mm in.	49 1,93”	36 1,42”	17 0,67”	63 2,48”
ZN	ZMF53Zn		0,895	mm in.	57 2,24”	40 1,57”	18 0,70”	77 3,03”
ZN	ZMF55/60/62Zn		1,080	mm in.	59 2,32”	40 1,57”	18 0,70”	89 3,50”

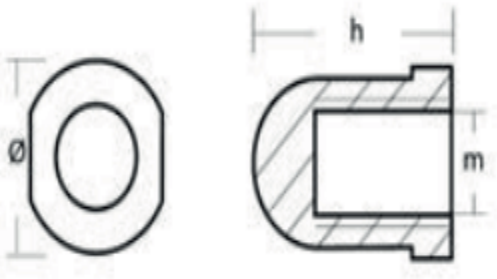
ANODO PONTA DE EIXO BENETEAU





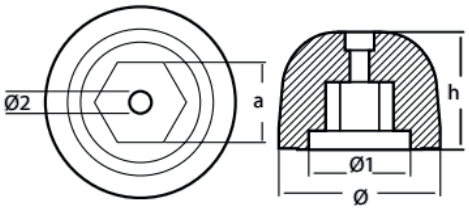
	Ref.	R$	Kg	Un.	Ø	Ø1	Ø2	Ø3	h
ZN	ZMB25Zn		0,130	mm in.	34 1,34”	25 0,98”	6,5 0,26”	11 0,43”	40 1,57”
ZN	ZMB30Zn		0,250	mm in.	42 1,65”	32 1,26”	8,5 0,33”	13,5 0,53”	53 2,08”
ZN	ZMB35Zn		0,320	mm in.	46 1,81”	38 1,50”	8,5 0,33”	13,5 0,53”	62 2,44”
ZN	ZMB40Zn		0,500	mm in.	51 2”	42 1,65”	8,5 0,33”	16 0,62”	67 2,63”
ZN	ZMB45Zn		0,850	mm in.	60 2,36”	46 1,81”	11 0,43”	21 0,83”	76 2,99”
ZN	ZM50Zn		1,160	mm in.	72 2,83”	57 2,24”	11 0,43”	22 0,87”	83 3,27”

ANODO HÉLICE VARIFOLD *VF3AN*



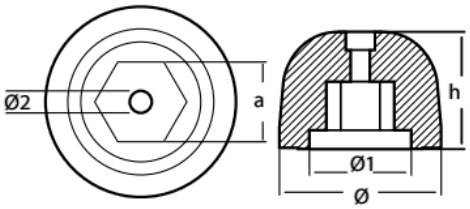
	Ref.	R$	Kg	Un.	a	*h*	Ø	m
Zn	*ZMVF3ANZn*		*0,900*	***mm***	***19,05***	***45***	***45***	*M16 x*
Al	*ZMVF3ANZn*		*0,360*	*in.*	*0,75”*	*1,77”*	*1,77”*	*2mm*

ANODO BOWTHRUSTER 3/4”



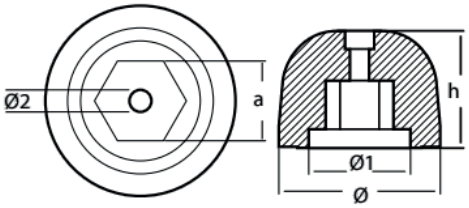
	Ref.	R$	Kg	Un.	a	*h*	Ø	$Ø_1$	$Ø_2$
Zn	*ZMFBT34Zn*		*0,310*	***mm***	***19,05***	***40***	***47***	***35***	***7***
Al	*ZMBT34Al*		*0,120*	*in.*	*0,75”*	*1,57”*	*1,83”*	*1,37”*	*0,27”*

ANODO BOWTHRUSTER 1”



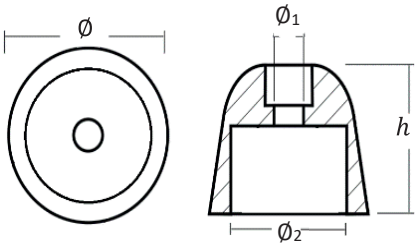
	Ref.	R$	Kg	Un.	a	*h*	Ø	$Ø_1$	$Ø_2$
Zn	*ZMFBT1Zn*		*0,310*	***mm*** *in.*	***28*** *1,1”*	***40*** *1,57”*	***47*** *1,83”*	***35*** *1,37”*	***7*** *0,27”*
Al	*ZMBT1Al*		*0,120*						

ANODO BOWTHRUSTER 1 1/4”



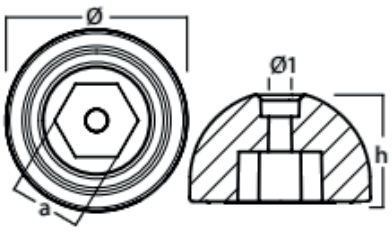
	Ref.	R$	Kg	Un.	a	*h*	Ø	$Ø_1$	$Ø_2$
Zn	*ZMFBT1Zn*		*0,310*	***mm*** *in.*	***33*** *1,29”*	***40*** *1,57”*	***47*** *1,83”*	***35*** *1,37”*	***7*** *0,27”*
Al	*ZMBT1Al*		*0,120*						

ANODO BOWTHRUSTER RETO



	Ref.	R$	Kg	Un.	Ø	Ø1	Ø2	h
Zn	ZMBTRZn		0,310	mm	49	10	36	42
Al	ZMBTRAl		0,120	in.	1,93”	0,39”	1,42”	1,65”

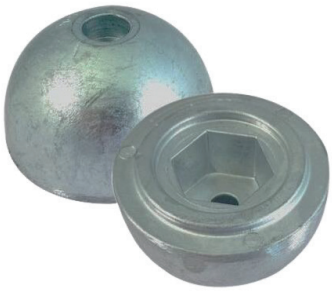
ANODO BOWTHRUSTER 3/4” PEQUENO

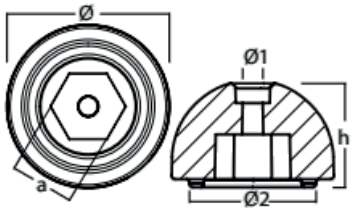


	Ref.	R$	Kg	Un.	a	h	Ø	Ø1
Zn	ZMBTZn		0,100	mm	19,05	24	40	7
Al	ZMBTAl		0,050	in.	0,75”	0,94”	1,57”	0,27”

ANODO BOWTHRUSTER QUICKSILVER

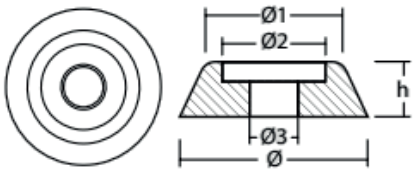
TQ18500





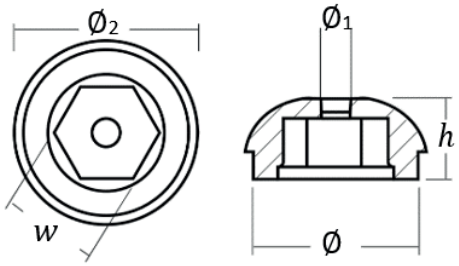
	Ref.	R$	Kg	Un.	a	*h*	Ø	$Ø_1$	$Ø_2$
Zn	*ZMTQ18500Zn*		*0,736*	***mm*** *in.*	***20*** *0,79”*	***32*** *1,26”*	***50*** *1,97”*	***6*** *0,24”*	***39*** *1,54”*
Al	*ZMTQ18500Al*		*0,260*						

ANODO BOWTHRUSTER LEWMAR ***589550***



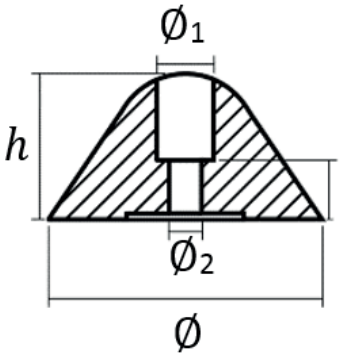
	Ref.	R$	Kg	Un.	*h*	Ø	$Ø_1$	$Ø_2$	$Ø_3$
Zn	*ZM589550Zn*		*0,237*	***mm*** *in.*	***19*** *0,75”*	***60*** *2,36”*	***42*** *1,65”*	***34*** *1,34”*	***15*** *0,59”*
Al	*ZM589550Al*		*0,095*						

ANODO BOWTHRUSTER SIDE POWER



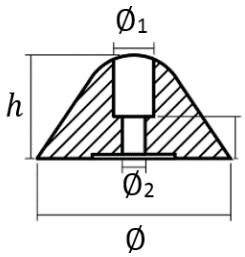
	Ref.	R$	Kg	Un.	Ø	Ø1	Ø2	w	h
Zn	ZMSP71190Zn		0,135	mm	41	7	46	20	20
Al	ZMSP71190Al		0,054	in.	1,61”	0,27”	1,81”	0,78”	0,78”

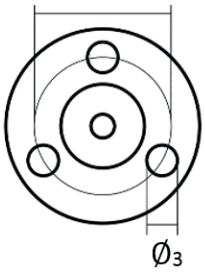
ANODO FLEXOFOLD 4 PÁS



	Ref.	R$	Kg	Un.	Ø	Ø1	Ø2	h
Zn	ZMFF4Zn			mm	86	16	8	46
Al	ZMFF4Al			in.	3,38”	0,63”	0,31”	1,81”

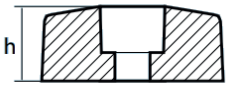
ANODO FLEXOFOLD 3 PÁS

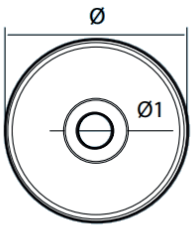




	Ref.	R$	Kg	Un.	Ø	Ø1	Ø2	Ø3	h
Zn	ZMFFZn		0,490	mm	66	16	8	13	30
Al	ZMFFAl		0,196	in.	2,60”	0,63”	0,31”	0,51”	1,18”

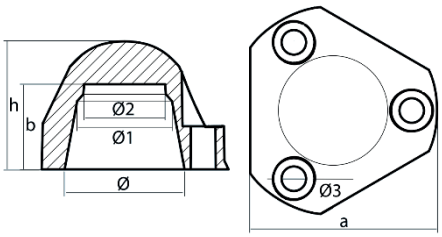
ANODO FLEXOFOLD 2 PÁS FF-2





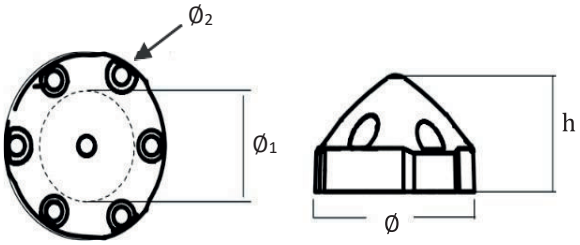
	Ref.	R$	Kg	Un.	Ø	Ø1	h
Zn	ZMFF2Zn		0,060	mm	32	6	13
				in.	1,26”	0,24”	0,51”

ANODO HÉLICE AUTOPROP H-6



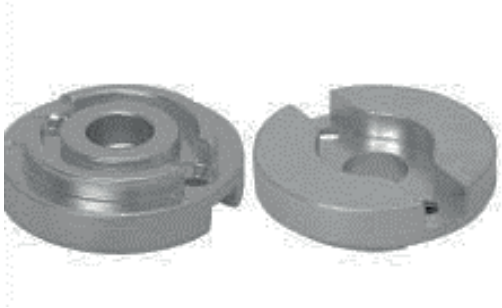
	Ref.	R$	Kg	Un.	Ø	Ø1	Ø2	Ø3	b	h
Zn	ZMH6Zn		0,410	mm in.	50 1,97”	43 1,69”	19 0,75”	9 0,35”	30 1,18”	45 1,77”

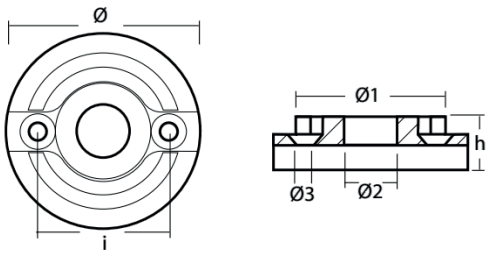
ANODO MAX PROP



	Ref.	R$	Kg	Un.	Ø	Ø1	Ø2	h
Zn	ZMP58Zn		0,300	mm	61	39	6,5	38
Al	ZMP58Al		0,120	in.	2,40”	1,54”	0,26”	1,50”
Zn	ZMP68Zn		0,405	mm	68	44	5	44
Al	ZMP68Al		0,162	in.	2,68”	1,73”	0,20”	1,73”
Zn	ZMP78Zn		0,885	mm	80	46	7	56
Al	ZMP78Al		0,354	in.	3,15”	1,81”	0,27”	2,20”

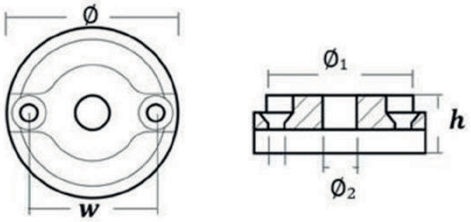
ANODO BOWTHRUSTER BP-1185/ SET0150





	Ref.	R$	Kg	Un.	Ø	Ø1	Ø2	Ø3	i	h
Zn	ZMSET0150Zn		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	Ø1	Ø2	w	h
Zn	ZMSET0149Zn		0,150	mm in.	50 1,97”	43 1,69”	15 0,59”	37 1,46”	17 0,67”

ANODO ANEL GORI

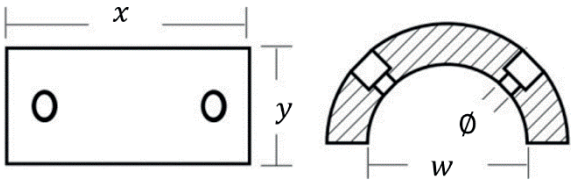
15527500 - hélices 3 pás Gori

15-16,5 "

11520000 - hélices 3 pás Gori

15-16,5 "

15530000 - hélices de 3 pás Gori 18-20 "



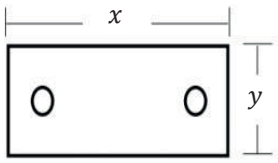
15539500 - hélices de 3 pás Gori 18-20 "

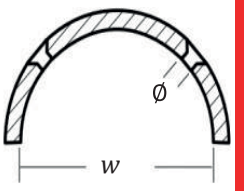
15540000 - hélices de 3 pás Gori

22-26 "

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

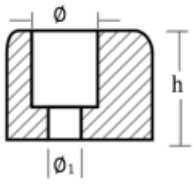
ANODO ANEL GORI - HÉLICES 2 PÁS GORI 13"-18 " *15670000*





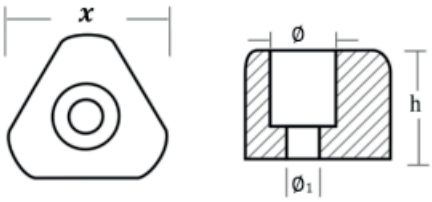
	Ref.	R$	Kg	Un.	*x*	*w*	Ø	*y*
Zn	*ZM15670000Zn*		*0,605*	***mm*** *in.*	***98*** *3,86”*	***79*** *3,11”*	***6,5*** *0,26”*	***40*** *1,57”*

ANODO TRIÂNGULO GORI HÉLICES DE 3 PÁS GORI 15” – 16,5” *14072100*



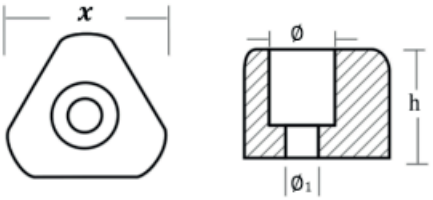
	Ref.	R$	Kg	Un.	*x*	$Ø_1$	Ø	*h*
Zn	*ZM14072100Zn*		*0,035*	***mm*** *in.*	***27*** *1,06”*	***7*** *0,28”*	***12*** *0,47”*	***16*** *0,63”*

ANODO TRIÂNGULO GORI HÉLICES DE 3 PÁS GORI 18” – 20” *14073100*



	Ref.	R$	Kg	Un.	x	$Ø_1$	Ø	h
Zn	ZM14073100Zn		0,050	mm in.	27 1,06”	6 0,24”	12 0,47”	16 0,63”

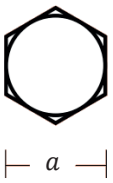
ANODO TRIÂNGULO GORI HÉLICES DE 3 PÁS GORI 22”, 24” e 26” *14074100*

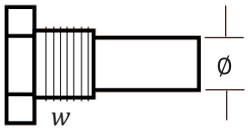


	Ref.	R$	Kg	Un.	x	$Ø_1$	Ø	h
Zn	ZM14074100Zn		0,100	mm in.	33 1,22”	8 0,31”	13 0,51”	20 0,78”

REFRIGERAÇÃO PARA MOTORES

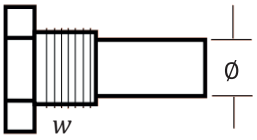
ANODO MERCRUISER 1.7 *882283*





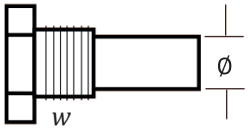
	Ref.	R$	Kg	Un.	Ø	a	w
Zn	*ZM882283Zn*		*0,100*	***mm*** *in.*	***15,88*** *5/8”*	***22,23*** *7/8”*	***1/2"*** ***NPT***

ANODO MERCRUISER 4.2 *806000*
YANMAR *119574-44150*
GERADOR ONAN *1304434*



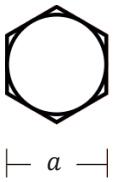
	Ref.	R$	Kg	Un.	Ø	a	w
Zn	*ZM806000Zn*		*0,060*	***mm*** *in.*	***12,7*** *1/2"*	***17,46*** *11/16”*	***3/8”*** ***NPT***
Zn	*ZM11957444150Zn*		*0,060*	***mm*** *in.*	***12,7*** *1/2"*	***17,46*** *11/16”*	***3/8”*** ***NPT***
Zn	*ZM1304434Zn*		*0,060*	***mm*** *in.*	***12,7*** *1/2"*	***17,46*** *11/16”*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

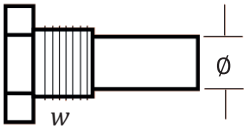
ANODO MOTOR 2.0/2.8/4.2L *879194217*



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

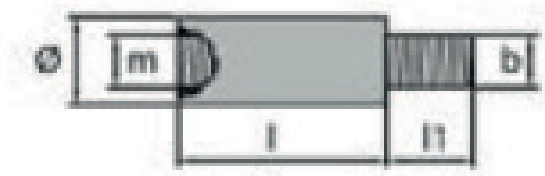
ANODO MERCRUISER TDI V6





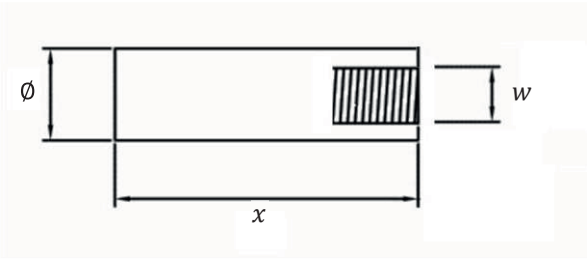
	Ref.	R$	Kg	Un.	Ø	a	w
Zn	*ZMV6Zn*		*0,040*	***mm*** *in.*	***10*** *0,39”*	***22,23*** *7/8”*	***M18 X 1,5***

ANODO VOLVO PENTA M8 C/ ROSCA EXTERNA



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

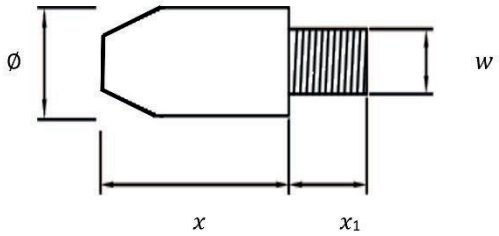
ANODO VOLVO PENTA M8 *838929*



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

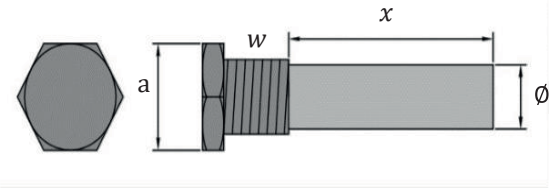
ANODO VOLVO PENTA AFTER COOLER

823661



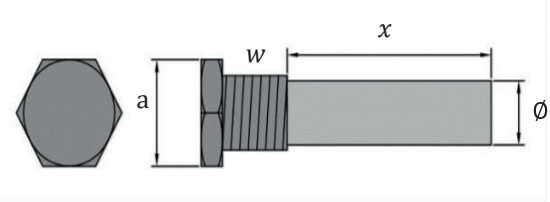
	Ref.	R$	Kg	Un.	Ø	x	x1	w
Zn	*ZM823661Zn*		*0,160*	***mm*** *in.*	***26*** *1,02”*	***44*** *1,75”*	***8*** *0,31”*	***3/8”*** ***UNC***

ANODO GERADOR KOHLER ***267928***



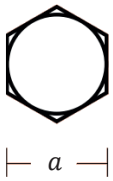
	Ref.	R$	Kg	Un.	Ø	x	a	w
Zn	*ZM267928Zn*		*0,120*	***mm*** *in.*	***16*** *5/8”*	***38*** *1,50”*	***22,23*** *7/8”*	***1/4”*** ***NPT***

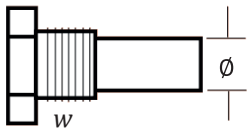
ANODO KOHLER 25KVA



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

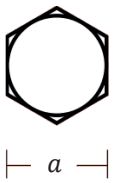
ANODO KOHLER 55KVA

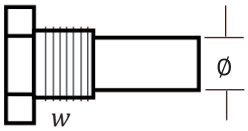




	Ref.	R$	Kg	Un.	Ø	a	w
Zn	ZMK55KVAZn			mm in.			

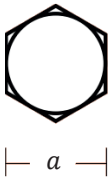
ANODO GERADOR ONAN 5KVA

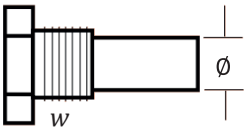




	Ref.	R$	Kg	Un.	Ø	a	w
Zn	*ZMO5KVAZn*		*0,030*	***mm*** *in.*	***10*** *0,39”*	***14*** *0,55”*	***1/4” NPT***

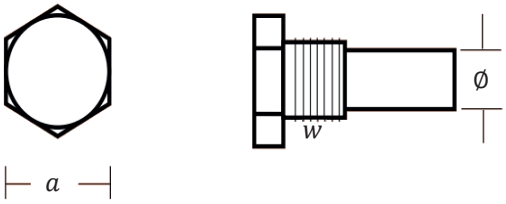
ANODO CUMMINS / YANMAR ***119574-18790***





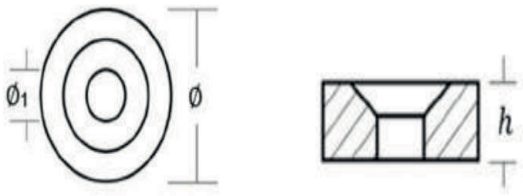
	Ref.	R$	Kg	Un.	Ø	a	w
Zn	*ZMCMZn*		*0,136*	***mm*** *in.*	***16*** *5/8”*	***22*** *7/8”*	***1/2" NPT***
Zn	*ZM11957418790Zn*		*0,136*	***mm*** *in.*	***16*** *5/8”*	***22*** *7/8”*	***1/2" NPT***

ANODO GERADOR MASE



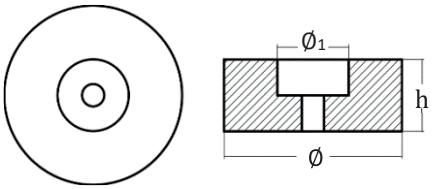
	Ref.	R$	Kg	Un.	Ø	x	a	w
Zn	ZMM10Zn		0,015	mm in.	8 0,315”	10 0,394”	14,29 9/16”	1/4” NPT
Zn	ZMM20Zn		0,020	mm in.	8 0,315”	20 0,787”	14,29 9/16”	1/4” NPT
Zn	ZMM30Zn		0,025	mm in.	8 0,315”	30 1,181	15,88 5/8”	1/4” NPT
Zn	ZMM23Zn		0,165	mm in.	22 0,866”	40 1,575”	28,58 1.1/8”	1/4” NPT

ANODO REFRIGERAÇÃO MOTOR MWM



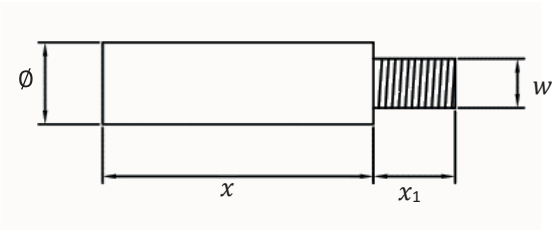
	Ref.	R$	Kg	Un.	Ø	h
Zn	ZMMWMZn		0,020	mm in.	17,5 0,68”	10 0,393”

ANODO MUFLA MOTOR MWM



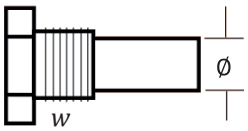
	Ref.	R$	Kg	Un.	Ø	h
Zn	ZMMWMMZn		0,075	mm in.	32,5 1,27”	17 0,670”

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



	Ref.	R$	Kg	Un.	Ø	x	x_1	w
Zn	ZM6L2280Zn		0,040	mm In.	12,7 0,50”	38,1 1,5”	10 0,39”	3/8” UNC
Zn	ZM6L2281Zn		0,040	mm In.	12,7 0,50"	38,1 1,5”	10 0,39”	3/8” UNC
Zn	ZM6L2283Zn		0,040	mm In.	10 0,39”	55 2,17”	10 0,39”	1/4" UNC
Zn	ZM6L3104Zn		0,025	mm In.	10 0,39”	38 1.50”	10 0,39”	1/14” UNC
Zn	ZM6L2288Zn		0,090	mm In.	16 0,63”	63 2,48”	13 0,51”	3/8” UNC
Zn	ZM5B9651Zn		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*		*0,055*	***mm*** *In.*	***15*** *0,59”*	***22,23*** *7/8”*	***M18 X 1,5***

KIT REFRIGERAÇÃO MOTOR 4.2 (PRETO)

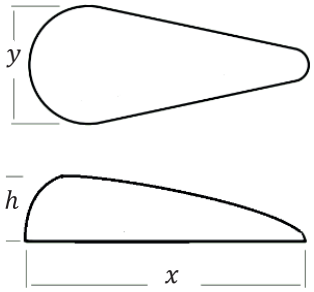
	Ref.	R$	Kg	Contém:
Zn	***MOTOR PRETO***			*2 unid. ZM806000*

KIT REFRIGERAÇÃO MOTOR 4.2 (BRANCO)

	Ref.	R$	Kg	Contém:
Zn	***MOTOR BRANCO***			*1 unid. ZM806000* *1 unid. ZM879194217*

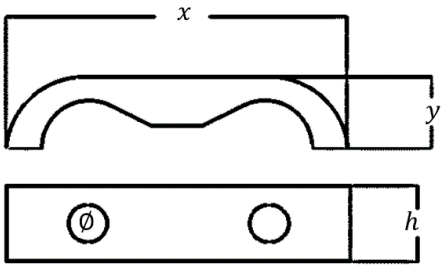
ANODO PARA SERPENTINA

ANODO APS-6/MOUSE



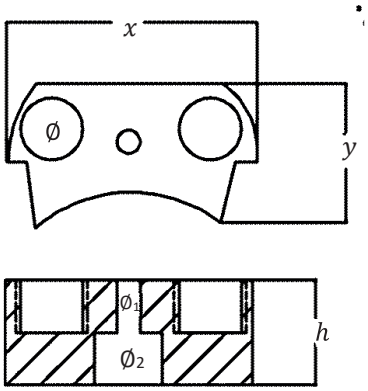
	Ref.	R$	Kg	Un.	x	y	h
Zn	ZMAPS6Zn		0,600	mm	116	58	25
Al	ZMAPS6Al		0,240	in.	4,57”	2,28”	0,98”

ANODO APS-7



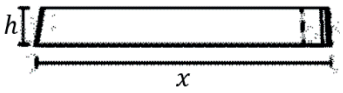
	Ref.	R$	Kg	Un.	x	y	h
Zn	ZMAPS7Zn		0,700	mm	176	30	39
Al	ZMAPS7Al		0,280	in.	6,93”	1,18”	1,53”

ANODO APS-11



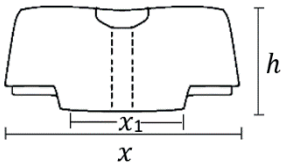
	Ref.	R$	Kg	Un.	x	y	Ø	$Ø_1$	$Ø_2$	h
Zn	ZMAPS11Zn		1,200	mm	115	63	28	11	25	36
Al	ZMAPS11Al		0,480	in.	4,53”	2,48”	1,10”	0,43”	0,98”	1,42”

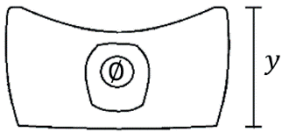
ANODO APS-14



	Ref.	R$	Kg	Un.	x	x_1	h
ZN	ZMAPS14Zn		1,162	mm	180	83	20
AL	ZMAPS14Al		0,465	in.	7,08”	3,27”	0,79”

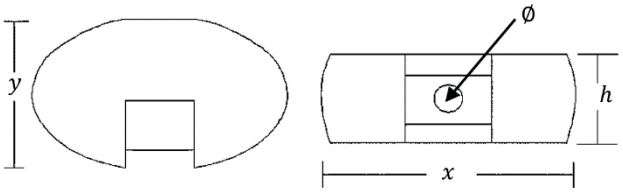
ANODO APS-18





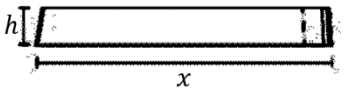
	Ref.	R$	Cód	Kg	Un.	x	x_1	y	Ø	h
Zn	ZMAPS18Zn		ZMAPS18	1,700	mm	120	63	70	14	49
Al	ZMAPS18Al			0,680	in.	4,72"	2,48"	2,75"	0,55"	1,92"

ANODO APS-19



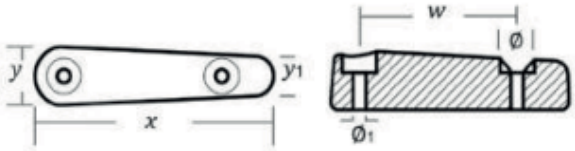
	Ref.	R$	Kg	Un.	Ø	x	y	h
Zn	ZMAPS19Zn		1,800	mm	12	125	70	45
Al	ZMAPS19Al		0,720	in.	0,47"	4,92"	2,75"	1,77"

ANODO APS-27



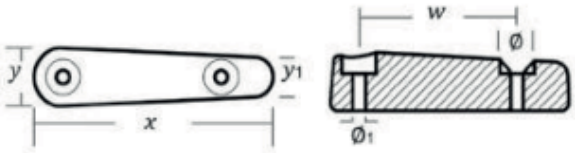
	Ref.	R$	Kg	Un.	x	x_1	h
ZN	*ZMAPS27Zn*		*2,437*	***mm***	***250***	***120***	***23***
AL	*ZMAPS27Al*		*0,975*	*in.*	*9,28”*	*4,72”*	*0,90”*

ANODO BARRA RABETA ARNESON G



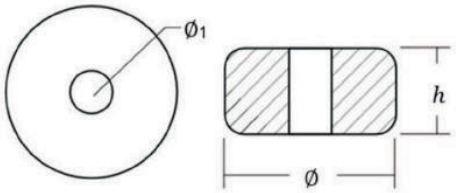
	Ref.	R$	Kg	Un.	x	y	y_1	w	Ø	$Ø_1$
Zn	*ZMARNLZn*		*0,1575*	***mm***	***190***	***46***	***30***	***127***	***27***	***10,5***
Al	*ZMARNLAl*		*0,630*	*in.*	*7,48”*	*1,81”*	*1,18”*	*5”*	*1,06”*	*0,41”*

ANODO BARRA RABETA ARNESON P



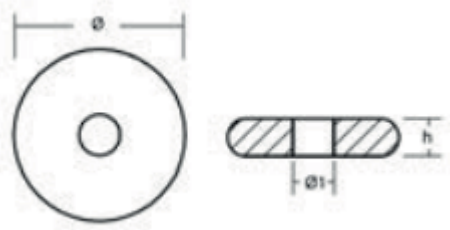
	Ref.	R$	Kg	Un.	x	y	y_1	w	Ø	$Ø_1$
Zn	*ZMARNSZn*		*0,560*	***mm***	***150***	***32***	***19***	***88***	***22***	***10,5***
Al	*ZMARNSAl*		*0,224*	*in.*	*5,90”*	*1,26”*	*0,75”*	*3,46”*	*0,86”*	*0,41”*

ANODO JET SKI SEADOO *271001487*



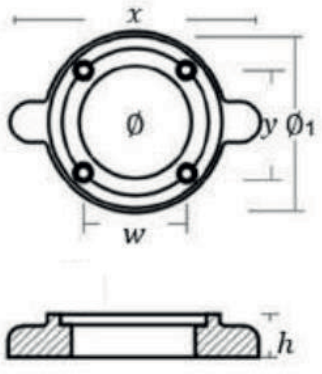
	Ref.	R$	Kg	Un.	*h*	Ø	$Ø_1$
Zn	*ZM271001487Zn*		*0,040*	***mm***	***12***	***24***	***7***
Al	*ZM271001487Al*		*0,016*	*in.*	*0,47”*	*0,94”*	*0,27”*

ANODO JET SKI SEADOO *271001920*



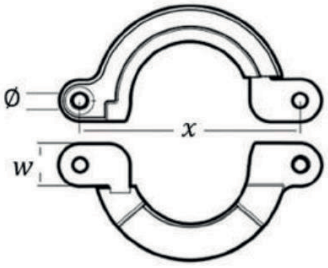
	Ref.	R$	Kg	Un.	*h*	Ø	$Ø_1$
Zn	*ZM271001920Zn*		*0,040*	***mm***	***6***	***27***	***6,5***
Al	*ZM271001920Al*		*0,016*	*in.*	*0,24”*	*1,06”*	*0,26”*

ANODO ANEL RABETA YANMAR *19642002652*



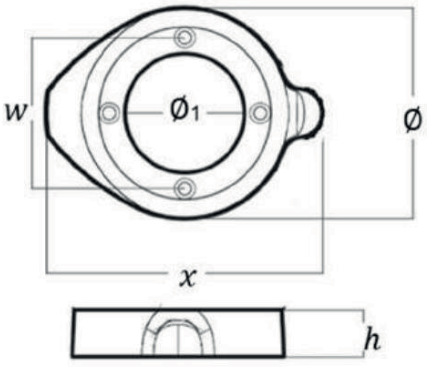
	Ref.	R$	Kg	Un.	*x*	*y*	$Ø_1$	*w*	Ø	*h*
Zn	*ZM19642002652Zn*		*0,830*	***mm***	***147***	***43***	***108***	***73***	***66***	***25***
Al	*ZM19642002652Al*		*0,332*	*in.*	*5,79”*	*1,69”*	*4,25”*	*2,87”*	*2,60”*	*0,98”*

ANODO ANEL RABETA YANMAR BIPARTIDO *196440026600*



	Ref.	R$	Kg	Un.	*x*	Ø	*w*
Zn	*ZM196440026600Zn*		*0,650*	***mm***	***123***	***8***	***24***
Al	*ZM196440026600Al*		*0,260*	*in.*	*4,84”*	*0,31”*	*0,94”*

ANODO RABETA ZF/NANNI *3321301012*

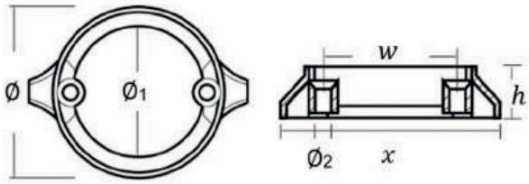


	Ref.	R$	Kg	Un.	*x*	Ø1	*w*	Ø	*h*
Zn	*ZM3321301012Zn*		*0,900*	***mm***	***148***	***64***	***81***	***113***	***25***
Al	*ZM3321301012Al*		*0,360*	*in.*	*5,83”*	*2,52”*	*3,19”*	*4,45”*	*0,98”*

VOLVO PENTA

ANODO ANEL RABETA SÉRIE 290 DP VP

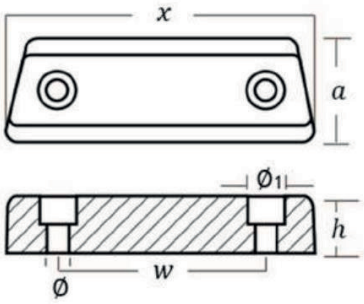
875821



	Ref.	R$	Kg	Un.	x	Ø	$Ø_1$	$Ø_2$	w	h
Zn	*ZM875821Zn*		*0,585*	***mm*** *in.*	***146*** *5,75”*	***111*** *4,37”*	***85*** *3,35”*	***9*** *0,35”*	***92*** *3,58”*	***30*** *1,18”*
Al	*ZM875821Al*		*0,234*							
Mg	*ZM875821Mg*		*0,156*							

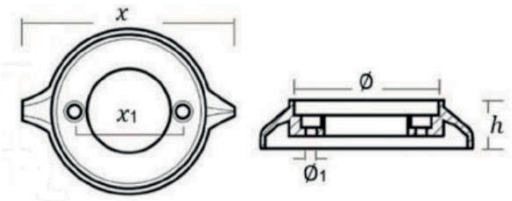
ANODO BARRA DO ESPELHO 290 DP VP

852835



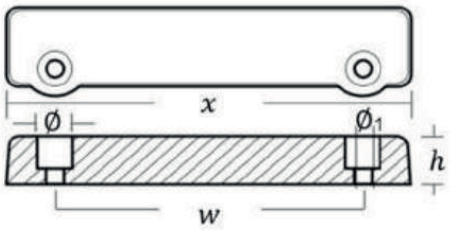
	Ref.	R$	Kg	Un.	Ø	$Ø_1$	x	a	w	h
Zn	*ZM852835Zn*		*0,820*	***mm*** *in.*	***8,5*** *0,33”*	***14*** *0,55”*	***132*** *5,20”*	***46*** *1,81”*	***85*** *3,35”*	***25*** *0,98”*
Al	*ZM852835Al*		*0,328*							
Mg	*ZM852835Mg*		*0,219*							

ANODO ANEL RABETA SÉRIE 280 *875815*



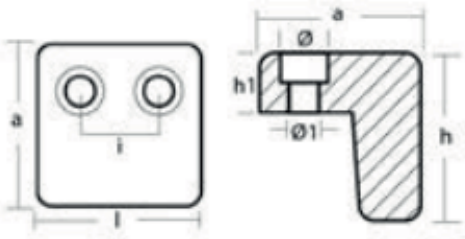
	Ref.	R$	Kg	Un.	x	$\emptyset$	$\emptyset_1$	x_1	h
Zn	*ZM875815Zn*		*0,720*	***mm*** *in.*	***156*** *6,14”*	***104*** *4,09”*	***61*** *2,40”*	***80*** *3,15”*	***35*** *1,38”*
Al	*ZM875815Al*		*0,288*						
Mg	*ZM875815Mg*		*0,192*						

ANODO BARRA DO ESPELHO 250/285 VP *832598*



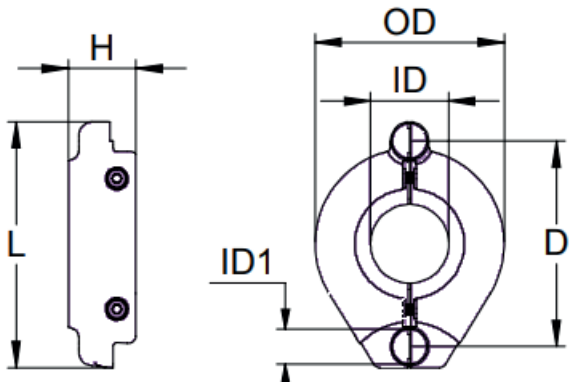
	Ref.	R$	Kg	Un.	$\emptyset$	$\emptyset_1$	x	w	h
Zn	*ZM832598Zn*		*0,805*	***mm*** *in.*	***15*** *0,59”*	***9*** *0,35”*	***188*** *7,40”*	***145*** *5,71”*	***22*** *0,87”*
Al	*ZM832598Al*		*0,322*						
Mg	*ZM832598Mg*		*0,215*						

ANODO 270-280 VP *832934*



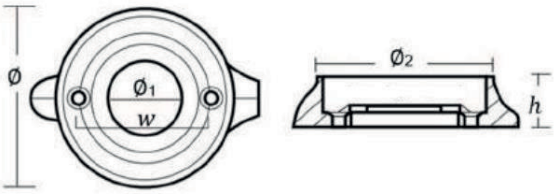
	Ref.	R$	Kg	Un.	l	a	i	Ø	Ø1	h1	h
Zn	ZM832934Zn		0,630	mm	55	54	26	13	9	20	56
				in.	2,17”	2,13”	1,02”	0,51”	0,35”	0,79”	2,20”

ANODO RABETA 130s 150s *22651246*



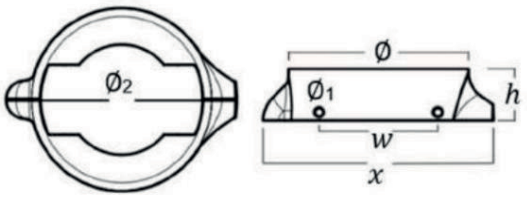
	Ref.	R$	Kg	Un.	L	d	ID	ID1	OD	h
Zn	ZM22651246Zn		1,475	mm	141	118	45	20	109	39
Al	ZM22651246Al		0,590	in.	5,55”	4,65”	1,77”	0,79”	4,29”	1,54”

ANODO ANEL RABETA SÉRIE 120 *851983*



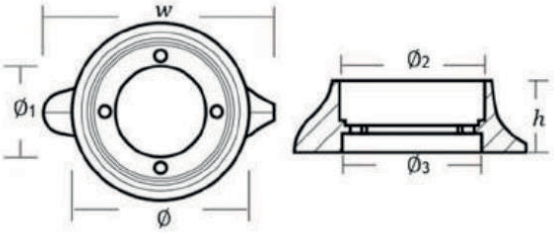
	Ref.	R$	Kg	Un.	Ø	Ø1	Ø2	w	h
Zn	ZM851983Zn		0,455	mm	97	40	88	72	27
Al	ZM851983Al		0,182	in.	3,82”	1,57”	3,46”	2,83”	1,06”
Mg	ZM851983Mg		0,122						

ANODO ANEL RABETA SÉRIE 120 BIPARTIDO *876286*



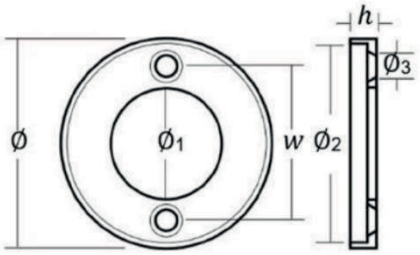
	Ref.	R$	Kg	Un.	Ø	Ø1	Ø2	w	x	h
Zn	ZM876286Zn		0,390	mm	95	4,4	88	63	59	27
Al	ZM876286Al		0,156	in.	3,47”	0,17”	3,46”	2,48”	2,32”	1,06”
Mg	ZM876286Mg		0,104							

ANODO ANEL RABETA SÉRIE 110 *875812*



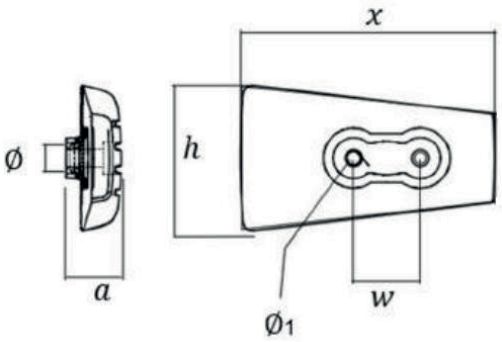
	Ref.	R$	Kg	Un.	Ø	Ø1	Ø2	Ø3	w	h
Zn	ZM875812Zn		0,835	mm	106	65	85	82	138	43
Al	ZM875812Al		0,334	in.	4,17”	2,56”	3,35”	3,23”	5,43”	1,69”
Mg	ZM875812Mg		0,223							

ANODO ANEL RABETA 275 VP *875805*



	Ref.	R$	Kg	Un.	Ø	Ø1	Ø2	Ø3	w	h
Zn	ZM875805Zn		0,425	mm	108	58	103	10	80	10
Al	ZM875805Al		0,170	in.	4,25”	2,28”	4,06”	0,39”	3,15”	0,39”
Mg	ZM875805Mg		0,114							

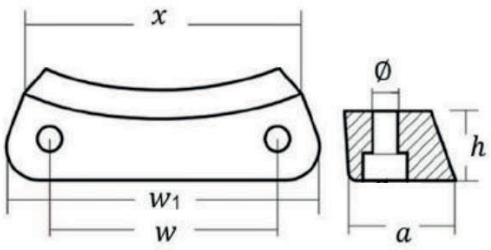
ANODO RABETA VP DPH DRIVES *3588746*



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

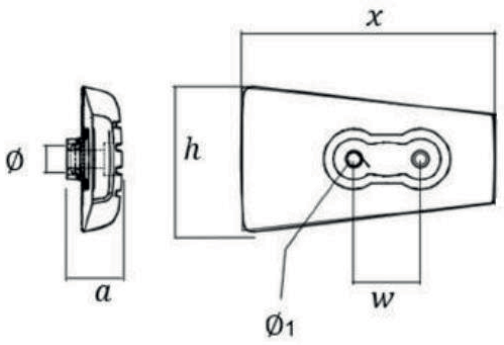
ANODO ESPELHO DPH /DPI / VP D4 D6

3588745



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

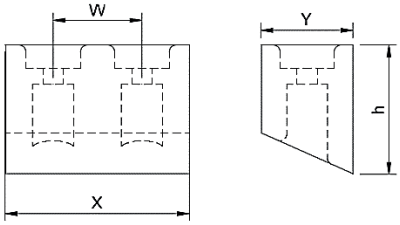
ANODO RABETA DPI *23520859*



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

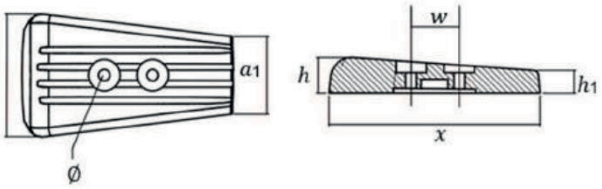
ANODO MUFLA VOLVO PENTA V6 V8

21403633



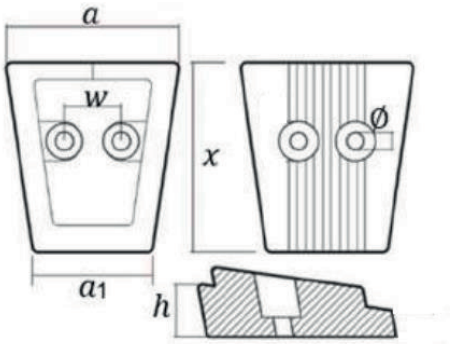
	Ref.	R$	Kg	Un.	w	x	y	h
Zn	ZM21403633Zn		0,230	mm	26	54	16	38
Al	ZM21403633Al		0,095	in.	1,02”	2,12”	0,62”	1,49”

ANODO RABETA DPS/SX VP *3883728*



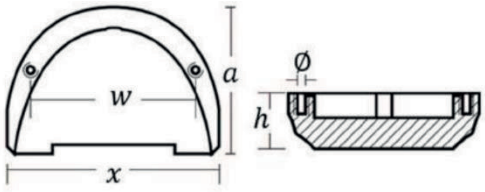
	Ref.	R$	Kg	Un.	Ø	w	x	a	a 1	h
Zn	ZM3883728Zn		1,290	mm	10	35	151	90	59	29
Al	ZM3883728Al		0,516	in.	039”	1,38”	5,94”	354”	2,32”	1,14”
Mg	ZM3883728Mg		0,344							

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



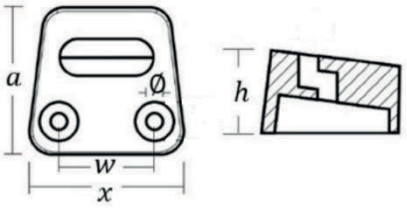
	Ref.	R$	Kg	Un.	Ø	w	x	a	a 1	h
Zn	ZM3841427Zn		1,160	mm	9	30	100	90	61	28
Al	ZM3841427Al		0,465	in.	0,35”	1,18”	3,94”	3,54”	2,40”	1,10”
Mg	ZM3841427Mg		0,310							

ANODO VP RABETA SX/DP-SM *3855411*



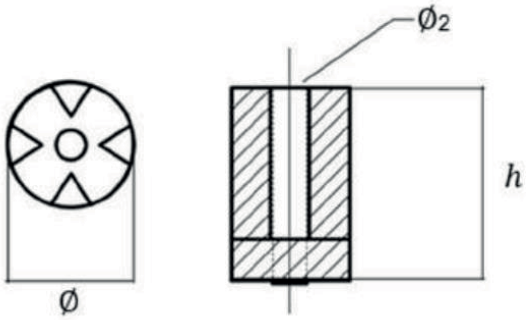
	Ref.	R$	Kg	Un.	*a*	*w*	*x*	Ø	*h*
Zn	*ZM3855411Zn*		*1,095*	***mm*** *in.*	***104*** *4,09”*	***113*** *4,45”*	***146*** *5,75”*	***¼”***	***38*** *1,50”*
Al	*ZM3855411Al*		*0,438*						
Mg	*ZM3855411Mg*		*0,292*						

ANODO VP SX/DP-SM *3854130*



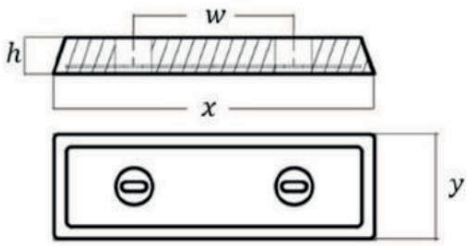
	Ref.	R$	Kg	Un.	*a*	*w*	*x*	Ø	*h*
Zn	*ZM3854130Zn*		*1,050*	***mm*** *in.*	***79*** *3,11”*	***51*** *2,01”*	***91*** *3,58”*	***10*** *0,39”*	***47*** *1,85”*
Al	*ZM3854130Al*		*0,420*						
Mg	*ZM3854130Mg*		*0,280*						

ANODO RABETA VP IPS *3593981*



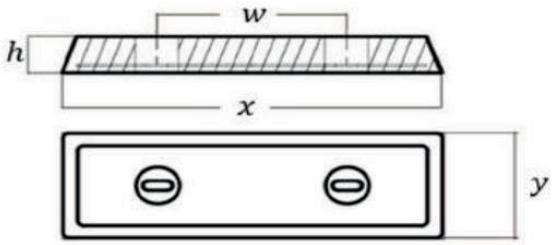
	Ref.	R$	Kg	Un.	Ø	Ø2	h
Zn	*ZM3593981Zn*		*0,710*	***mm***	***49***	***10,5***	***70***
Al	*ZM3593981Al*		*0,284*	*in.*	*1,93”*	*0,41”*	*2,76”*

ANODO PLACA VOLVO PENTA IPS *40005875*



	Ref.	R$	Kg	Un.	y	w	x	h
Al	*ZM40005875Al*		*1,456*					

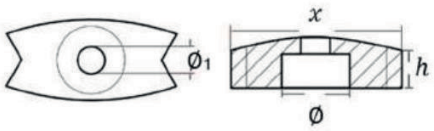
ANODO PLACA VOLVO PENTA IPS *21174476*



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

ANODO BOWTHRUSTER VOLVO PENTA

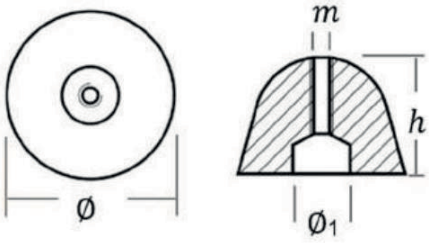
41100276



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

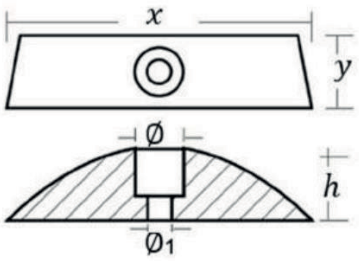
ANODO BOWTHRUSTER VOLVO PENTA

41100098



	Ref.	R$	Kg	Un.	m	ø	ø 1	h
Zn	ZM41100098Zn		0,060	mm	M4	29	9,5	20
Al	ZM41100098Al		0,025	in.		1,14”	0,37”	0,79”

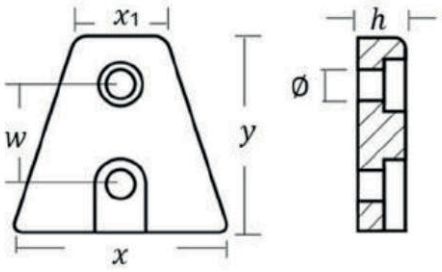
ANODO CONJUNTO 2 PÁS DOS MODELOS 110 E 121 *852018*



	Ref.	R$	Kg	Un.	y	x	ø	ø 1	h
Zn	ZM852018Zn		0,120	mm	15	63	10	5,5	15
Al	ZM852018Al		0,050	in.	0,59”	2,48”	0,39”	0,22”	0,59”

ANODO VOLVO PENTA DPX TRAPEZOID

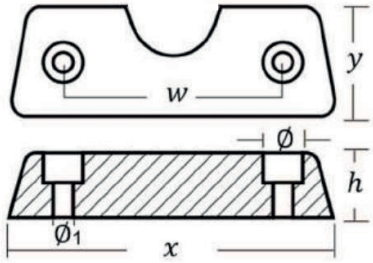
876638



	Ref.	R$	Kg	Un.	*y*	*x*	*x* 1	*w*	ø	*h*
Zn	*ZM876638Zn*		*0,185*	***mm***	***56***	***60***	***26***	***28***	***13***	***14***
Al	*ZM876638Al*		*0,075*	*in.*	*2,20”*	*2,36”*	*1,02”*	*1,10”*	*0,51”*	*0,53”*

ANODO VOLVO PENTA DPX ESPELHO

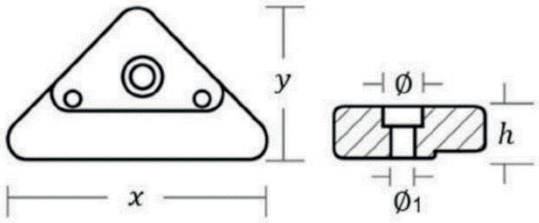
872139



	Ref.	R$	Kg	Un.	*y*	*x*	*w*	ø	ø 1	*h*
Zn	*ZM872139Zn*		*0,670*	***mm***	***35***	***130***	***85***	***15***	***8,5***	***25***
Al	*ZM872139Al*		*0,268*	*in.*	*1,38”*	*5,12”*	*3,35”*	*0,59”*	*0,33”*	*0,98”*

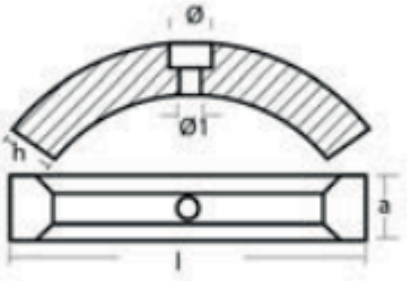
ANODO VOLVO PENTA DPX TRIANGULO

872793



	Ref.	R$	Kg	Un.	*y*	*x*	Ø	Ø 1	*h*
Zn	*ZM852018Zn*		*0,120*	***mm***	***15***	***63***	***10***	***5,5***	***15***
Al	*ZM852018Al*		*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.	I	a	*h*	Ø	Ø 1
Zn	*ZM23974203Zn*		*0,095*	***mm***	***87***	***15***	***12***	***10***	***5,5***
Al	*ZM23974203Al*		*0,038*	*in.*	*3,43”*	*0,59”*	*0,47”*	*0,39”*	*0,22”*

KIT VOLVO PENTA 280

	Ref.	R$	Kg	Contém:
Zn				*1 unid. ZM832598* *1 unid. ZM875815*
Al				
Mg				

KIT VOLVO PENTA 290 DP

	Ref.	R$	Kg	Contém:
Zn				*1 unid. ZM875821* *1 unid. ZM852835*
Al				
Mg				

KIT VOLVO PENTA DPS/SX-A

	Ref.	R$	Kg	Contém:
Zn				*1 unid. ZM3883728* *1 unid. ZM3841427*
Al				
Mg				

KIT VOLVO PENTA SX/DP-SM

	Ref.	R$	Kg	Contém:
Zn				*1 unid. ZM3855411* *1 unid. ZM3854130*
Al				
Mg				

KIT VOLVO PENTA DPH

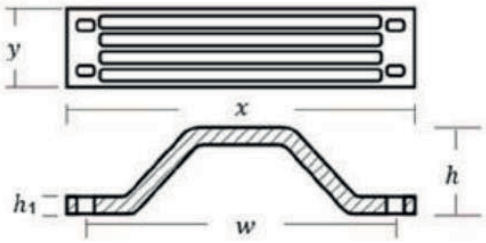
	Ref.	R$	Kg	Contém:
Zn				*1 unid. ZM3588745* *1 unid. ZM3588746*
Al				
Mg				

KIT VOLVO PENTA DPI

	Ref.	R$	Kg	Contém:
Zn				*1 unid. ZM3588745* *1 unid. ZM3588746*
Al				

YAMAHA

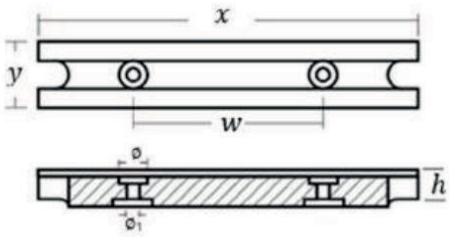
ANODO CAVALETE YAMAHA 115-350 HP *6G54525101*



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

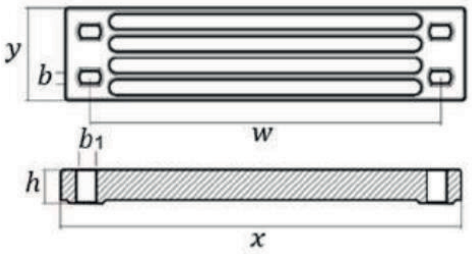
ANODO CAVALETE YAMAHA 40-115 HP

6H14525103



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

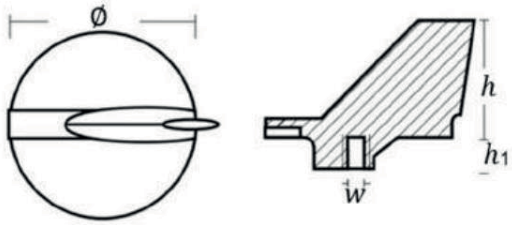
ANODO CAVALETE YAMAHA 200-350 HP *6AW4525100*



	Ref.	R$	Kg	Un.	y	x	w	b	b_1	h
Zn	ZM6AW4525100Zn		0,630	mm	47	201	180	6,5	11	17
Al	ZM6AW4525100Al		0,260	in.	1,85”	7,91”	7,09”	0,25”	0,43”	0,67”
Mg	ZM6AW4525100Mg		0,166							

ANODO YAMAHA LEME 200-300 HP

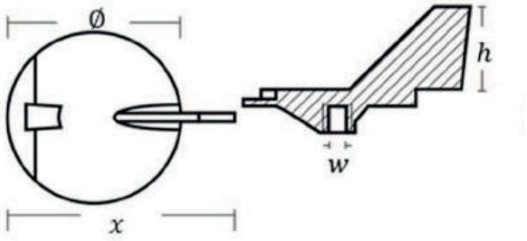
61A4537100



	Ref.	R$	Kg	Un.	Ø	w	h_1	h
Zn	ZM61A4537100Zn		0,650	mm	99	10x1,25	14	71
Al	ZM61A4537100Al		0,260	in.	3,90”		0,55”	0,55”
Mg	ZM61A4537100Mg		0,174					

ANODO YAMAHA LEME 150-225 HP

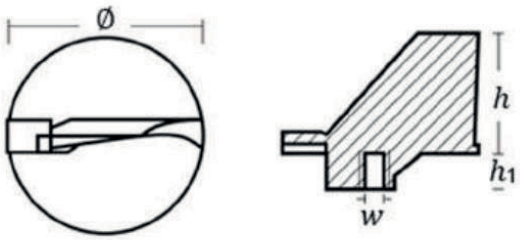
6J94537101



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

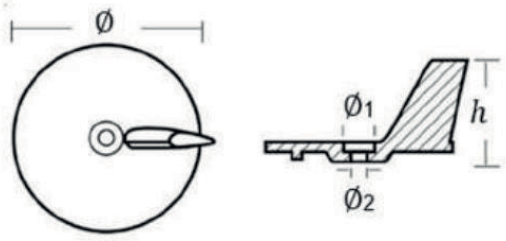
ANODO YAMAHA LEME 90-200 HP

6E54537101



	Ref.	R$	Kg	Un.	Ø	w	h_1	h
Zn	*ZM6E54537101Zn*		*0,435*	***mm*** *in.*	***91*** *3,58”*	$10x1,25$	***19*** *0,75”*	***57*** *2,24”*
Al	*ZM6E54537101Al*		*0,174*					
Mg	*ZM6E54537101Mg*		*0,116*					

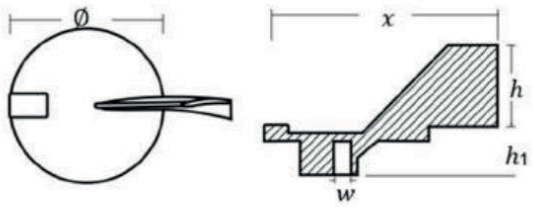
ANODO YAMAHA LEME 25-50 HP *6644537101*



	Ref.	R$	Kg	Un.	Ø	Ø 1	Ø 2	h
Zn	ZM6644537101Zn		0,240	mm in.	91,5 3,60”	18 0,71”	8,5 0,33”	55 2,17”
Al	ZM6644537101Al		0,096					
Mg	ZM6644537101Mg		0,064					

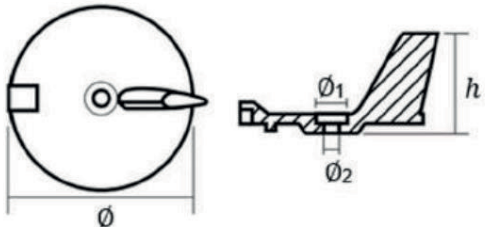
ANODO YAMAHA LEME 50-100 HP

67F4537100



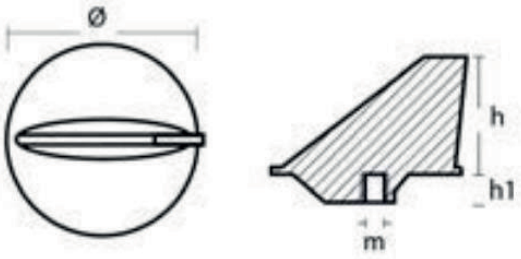
	Ref.	R$	Kg	Un.	x	w	Ø	h1	h
Zn	ZM67F4537100Zn		0,440	mm in.	132 5,20”	10x1,25	92 3,62”	25 0,98”	50 1,97”
Al	ZM67F4537100Al		0,176						
Mg	ZM67F4537100Mg		0,118						

ANODO YAMAHA LEME 25-60 HP *67C4537100*



	Ref.	R$	Kg	Un.	Ø	Ø 1	Ø 2	h
Zn	ZM67C4537100Zn		0,215	mm in.	95 3,74”	17 0,67”	9 0,35”	55 2,17”
Al	ZM67C4537100Al		0,086					
Mg	ZM67C4537100Mg		0,057					

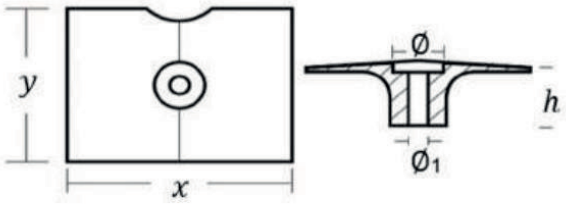
ANODO YAMAHA LEME 25/40/48/50/55/60/70 HP *6794537100*



	Ref.	R$	Kg	Un.	m	Ø	h1	h
Zn	ZM6794537100Zn		0,340	mm in.	10x1,25	91 3,58”	19 0,75”	55 2,17”
Al	ZM6794537100Al		0,136					
Mg	ZM6794537100Mg		0,095					

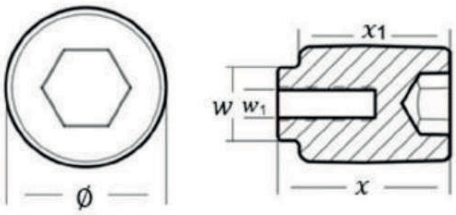
ANODO MOTOR YAMAHA 8-25 HP

61N4525101



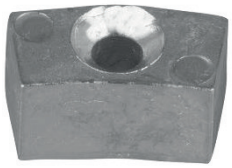
	Ref.	R$	Kg	Un.	*y*	*x*	Ø	Ø 1	*h*
Zn	*ZM61N4525101Zn*		*0,250*	***mm***	***59***	***80***	***16,5***	***6,5***	***26***
Al	*ZM61N4525101Al*		*0,100*	*in.*	*2,32”*	*3,15”*	*0,65”*	*0,26”*	*1,02”*
Mg	*ZM61N4525101Mg*		*0,066*						

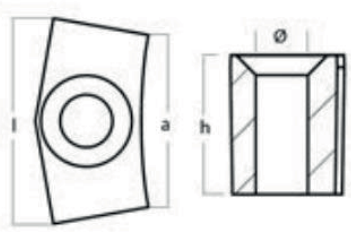
ANODO INTERNO MOTOR YAMAHA 75-250 ***68V1132501***



	Ref.	R$	Kg	Un.	*x*	*x1*	*w*	*w 1*	Ø
Zn	*ZM68V11325501Zn*		*0,075*	***mm***	***32***	***28***	***14***	***M6***	***21***
Al	*ZM68V11325501Al*		*0,030*	*in.*	*1,26”*	*1,10”*	*0,55”*		*0,83”*

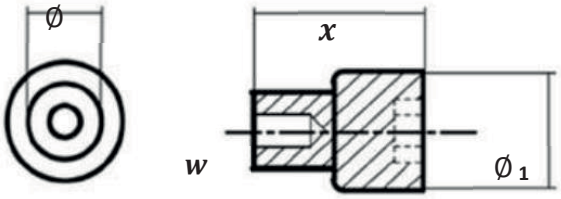
ANODO YAMAHA 300-350 HP *6AW1132P00*





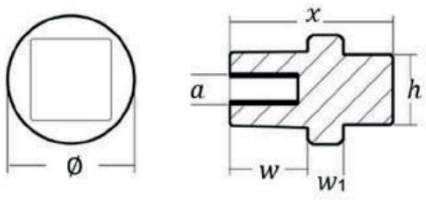
	Ref.	R$	Kg	Un.	Ø	a	l	*h*
Zn	*ZM6AW1132P00Zn*			***mm*** *in.*	***6,5*** *0,26”*	***22*** *0,87”*	***26*** *1,02”*	***17*** *0,67”*

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



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

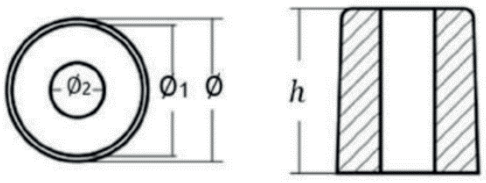
ANODO INTERNO MOTOR YAMAHA A 75-350 *67F1132501*



	Ref.	R$	Kg	Un.	*a*	*x*	*w*	*w1*	Ø	*h*
Zn	*ZM67F1132501Zn*		*0,045*	***mm***	***M6***	***32***	***14***	***7***	***22***	***14***
Al	*ZM67F1132501Al*		*0,018*	*in.*		*1,26”*	*0,55”*	*0,28”*	*0,87”*	*0,55”*

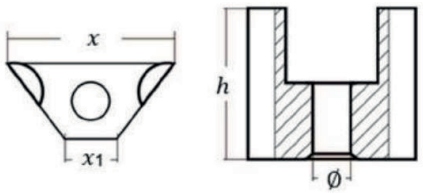
ANODO BLOCO/CABEÇOTE YAMAHA

6G81132500



	Ref.	R$	Kg	Un.	Ø	Ø 1	Ø 2	*h*
Zn	*ZM6G81132500Zn*		*0,015*	***mm***	***13***	***12***	***5,5***	***16***
Al	*ZM6G81132500Al*		*0,006*	*in.*	*0,51”*	*0,47”*	*0,22”*	*0,63”*

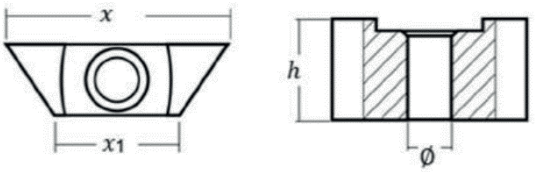
ANODO INTERNO MOTOR YAMAHA 40-90 HP *6881132500*



	Ref.	R$	Kg	Un.	Ø	x	x 1	h
Zn	ZM6881132500Zn		0,010	mm in.	5 0,20”	23 0,91”	7 0,28”	20 0,79”

ANODO INTERNO MOTOR YAMAHA

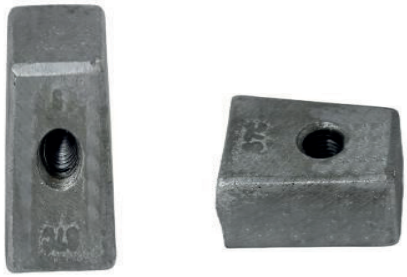
6E51132500

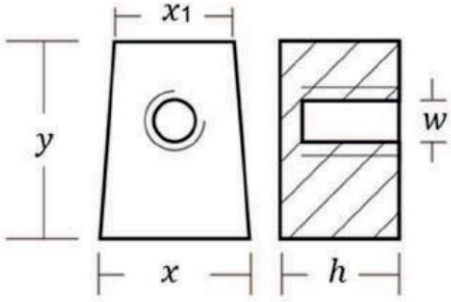


	Ref.	R$	Kg	Un.	Ø	x	x 1	h
Zn	ZM6E51132500Zn		0,010	mm in.	5 0,20”	27 1,06”	14 0,55”	10 0,39”

ANODO YAMAHA CUBO 25-60 HP

67C4525100

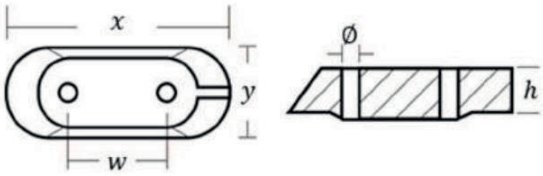




	Ref.	R$	Kg	Un.	*x*	*x*1	*y*	*w*	*h*
Zn	*ZM67C4525100Zn*		*0,120*	***mm*** *in.*	***26*** *1,02”*	***21*** *0,83”*	***35*** *1,38”*	***M8***	***23*** *0,91”*
Al	*ZM67C4525100Al*		*0,048*						
Mg	*ZM67C4525100Mg*		*0,032*						

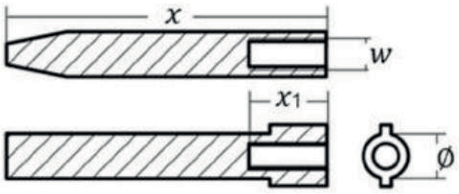
ANODO LATERAL YAMAHA 4-15 HP

65W4525100



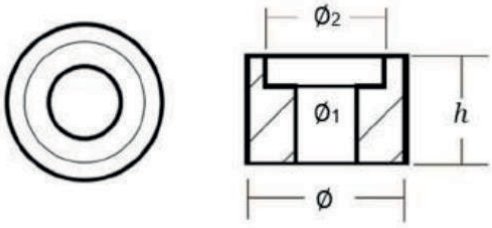
	Ref.	R$	Kg	Un.	*x*	*w*	*y*	Ø	*h*
Zn	*ZM65W4525100Zn*		*0,100*	***mm*** *in.*	***63*** *2,48”*	***26*** *1,02”*	***25*** *0,98”*	***6*** *0,24”*	***14*** *0,55”*
Al	*ZM65W4525100Al*		*0,040*						
Mg	*ZM65W4525100Mg*		*0,027*						

ANODO INTERNO MOTOR YAMAHA 25-250 HP *62Y1132500*



	Ref.	R$	Kg	Un.	x	x_1	w	Ø
Zn	*ZM62Y1132500Zn*		*0,015*	***mm*** *in.*	***50*** *1,97”*	***12*** *0,47”*	***M5***	***8,5*** *0,33”*

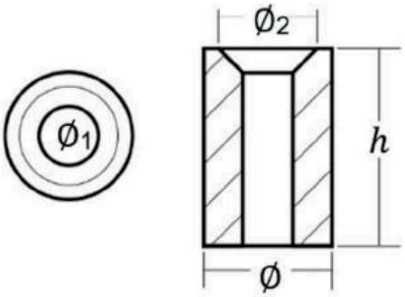
ANODO INTERNO MOTOR YAMAHA 40 -90 HP *6634525100/6884525101*



	Ref.	R$	Kg	Un.	Ø	$Ø_1$	$Ø_2$	h
Zn	*ZM6634525100Zn*		*0,045*	***mm*** *in.*	***24*** *0,94”*	***6,5*** *0,26”*	***12*** *0,47”*	***15*** *0,59”*

ANODO INTERNO MOTOR YAMAHA

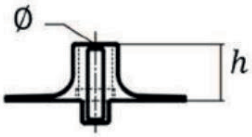
68T1132500

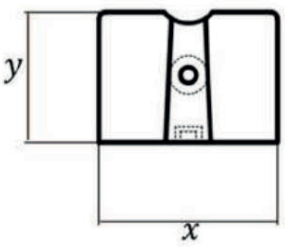


	Ref.	R$	Kg	Un.	Ø	Ø 1	Ø 2	h
Zn	*ZM68T1132500Zn*		*0,016*	***mm*** *in.*	***13*** *0,51”*	***6*** *0,24”*	***10*** *0,39”*	***20*** *0,79”*

ANODO MOTOR YAMAHA 4T 15-20 HP

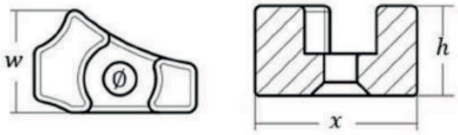
6AH4525100





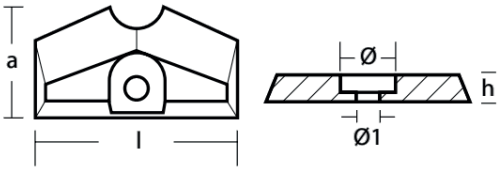
	Ref.	R$	Kg	Un.	x	y	Ø	h
Zn	*ZM6AH4525100Zn*		*0,260*	***mm*** *in.*	***80*** *3,15”*	***58*** *2,28”*	***7*** *0,28”*	***25*** *0,98”*
Al	*ZM6AH4525100Al*		*0,104*					

ANODO INTERNO MOTOR YAMAHA 9,9 - 15 HP *6821132500*



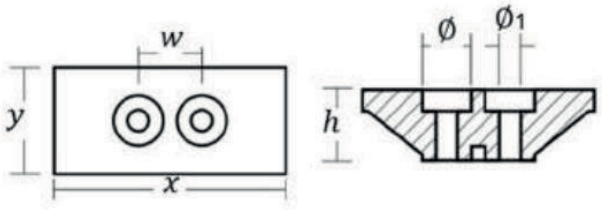
	Ref.	R$	Kg	Un.	*x*	*h*	Ø	*w*
Zn	*ZM6821132500Zn*		*0,020*	***mm*** *in.*	***27*** *31,06”*	***15*** *0,59”*	***5,5*** *0,22”*	***17*** *0,67”*

ANODO MOTOR YAMAHA 2-6 HP *6L54525103*



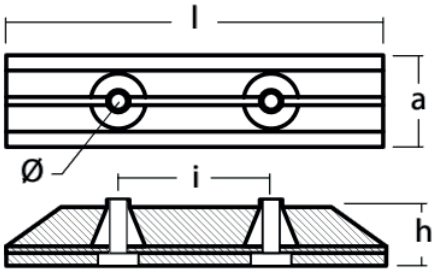
	Ref.	R$	Kg	Un.	*a*	*I*	Ø	Ø 1	*h*
Zn	*ZM6L54525103Zn*		*0,065*	***mm*** *in.*	***34*** *1,34”*	***60*** *2,36”*	***18*** *0,71”*	***6,5*** *0,26”*	***8,5*** *0,33”*
Al	*ZM6L54525103Al*		*0,025*						

ANODO YAMAHA HYDRA DRIVE *6UA4525100*



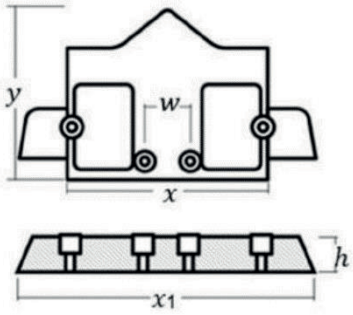
	Ref.	R$	Kg	Un.	*y*	*x*	*w*	Ø	Ø 1	*h*
Zn	*ZM6UA4525100Zn*		*0,250*	*mm*	***45***	***99***	***27***	***20***	***9***	***32***
Al	*ZM6UA4525100Al*		*0,100*	*in.*	*1,77”*	*3,90”*	*1,06”*	*0,79”*	*0,35”*	*1,26”*

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



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

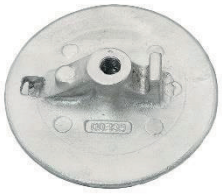
ANODO YAMAHA HYDRA *6UO4525100*

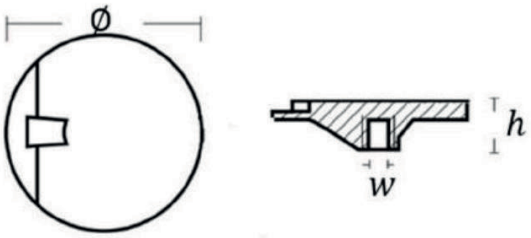


	Ref.	R$	Kg	Un.	y	x	x_1	w	h
Zn	ZM6UO4525100Zn		1,450	mm	130	145	225	35	25
Al	ZM6UO4525100Al		0,580	in.	5,12”	5,71”	8,86”	1,38”	0,98”

ANODO MOTOR YAMAHA 200-350 HP

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

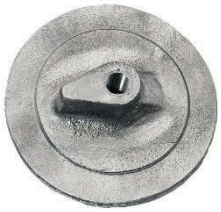


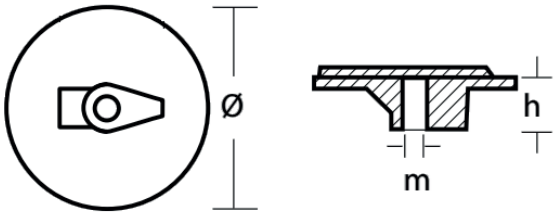


	Ref.	R$	Kg	Un.	h	Ø	w
Zn	ZM6CE4537300Zn		0,450	mm	22	99	$10x1,25$
Al	ZM6CE4537300Al		0,180	in.	0,87”	3,90”	
Mg	ZM6CE4537300Mg		0,120				

ANODO MOTOR YAMAHA 60-225 HP

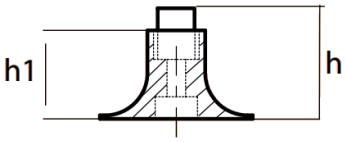
6E54537110

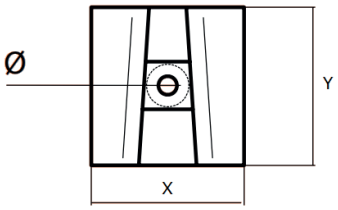




	Ref.	R$	Kg	Un.	*h*	Ø	*m*
Zn	*ZM6E54537110Zn*		*0,235*	***mm*** *in.*	***22*** *0,87”*	***91*** *3,58”*	$10x1,25$
Al	*ZM6E54537110Al*		*0,094*				
Mg	*ZM6E54537110Mg*		*0,060*				

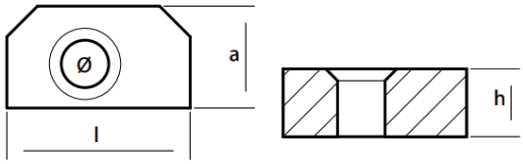
ANODO YAMAHA 300-350 HP ***6AW4537300***





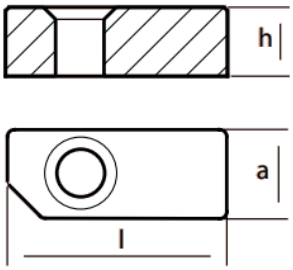
	Ref.	R$	Kg	Un.	*y*	*x*	Ø	*h*	h_1
Zn	*ZM6AW4537300Zn*		*1,030*	***mm*** *in.*	***93*** *3,66”*	***90*** *3,54”*	***11*** *0,43”*	***65*** *2,56”*	***52*** *2,05”*
Al	*ZM6AW4537300Al*		*0,400*						
Mg	*ZM6AW4537300Mg*		*0,573*						

ANODO YAMAHA 150-300 HP *63P1132511*



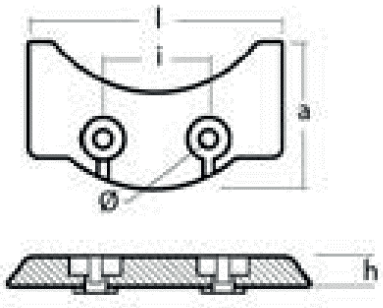
	Ref.	R$	Kg	Un.	ø	a	l	*h*
Zn	*ZM63P1132511Zn*		*0,020*	***mm*** *in.*	***7*** *0,28”*	***15*** *0,59”*	***27*** *1,06”*	***10*** *0,39”*

ANODO YAMAHA 150-350 HP *63P1132501*



	Ref.	R$	Kg	Un.	ø	a	l	*h*
Zn	*ZM63P1132501Zn*		*0,025*	***mm*** *in.*	***13*** *0,51”*	***13*** *0,51”*	***32*** *1,26”*	***10*** *0,39”*

ANODO YAMAHA HYDRA *6U44537300*



	Ref.	R$	Kg	Un.	Ø	a	l	i	*h*
Zn	*ZM6U44537300Zn*		*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				

KIT YAMAHA F 60

	Ref.	R$	Kg	Contém:
Al				

KIT YAMAHA F 90

	Ref.	R$	Kg	Contém:
Al				

KIT YAMAHA F 115

	Ref.	R$	Kg	Contém:
Al				

KIT YAMAHA F 150

	Ref.	R$	Kg	Contém:
Al				

KIT YAMAHA F 200

	Ref.	R$	Kg	Contém:
Al				

KIT YAMAHA F 225 / F 250

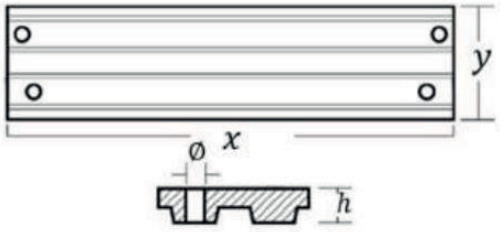
	Ref.	R$	Kg	Contém:
Al				

KIT YAMAHA F 350

	Ref.	R$	Kg	Contém:
Al				

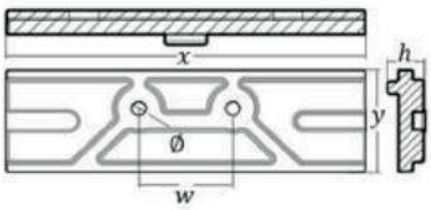
MERCURY/MARINER

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



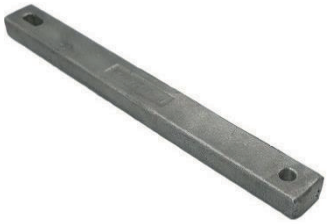
	Ref.	R$	Kg	Un.	x	y	ø	h
Zn	ZM818298Zn		0,600	mm	195	52	7	12
Al	ZM818298Al		0,240	in.	7,68”	2,05”	0,28”	0,47”
Mg	ZM818298Mg		0,160					

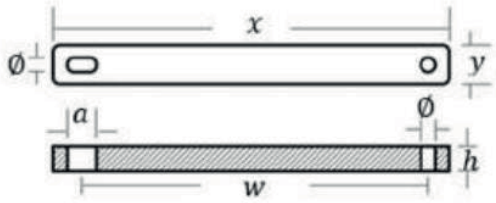
ANODO CAVALETE MERCURY 200-300 HP *8M0057772*



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

ANODO CAVALETE MOTORES MERCURY 30-50 HP *825271*

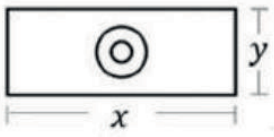


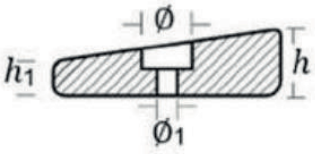


	Ref.	R$	Kg	Un.	*y*	*x*	*w*	*a*	Ø	*h*
Zn	*ZM825271Zn*		*0,275*	*mm*	***19***	***194***	***166***	***14***	***7***	***12***
Al	*ZM825271Al*		*0,110*	*in.*	*0,75”*	*7,64”*	*6,54”*	*0,55”*	*0,28”*	*0,47”*
Mg	*ZM825271Mg*		*0,073*							

ANODO LATERAL MERCURY 35-300 HP

826134

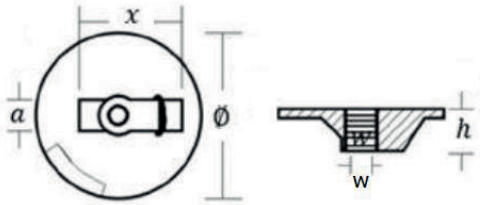




	Ref.	R$	Kg	Un.	*y*	*x*	Ø	*h*	*h* 1
Zn	*ZM826134Zn*		*0,230*	*mm*	***30***	***77***	***17***	***22***	***12***
Al	*ZM826134Al*		*0,092*	*in.*	*1,18”*	*3,03”*	*0,67”*	*0,87”*	*0,47”*
Mg	*ZM826134Mg*		*0,062*						

ANODO DISCO PLANO (C/ROSCA)

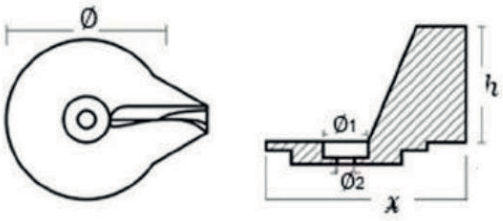
762145; 76214-5; 76214Q5; 76214T1; 76214M



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

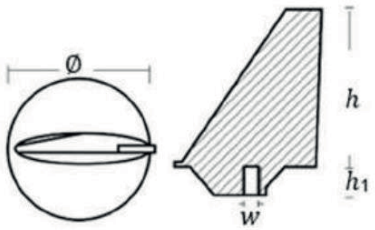
ANODO LEME MERCURY 25-50 HP

AMERICANO 822157



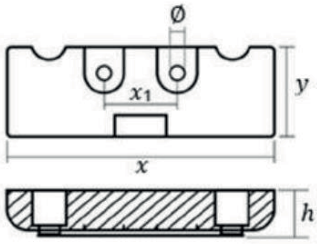
	Ref.	R$	Kg	Un.	x	Ø	Ø1	Ø2	h
Zn	ZM822157Zn		0,413	mm	115	93	24	9	70
Al	ZM822157Al		0,165	in.	4,53"	3,66"	0,94"	0,35"	2,76"
Mg	ZM822157Mg		0,110						

ANODO LEME LONGO MERCURY 80 - 140 HP *34127*



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

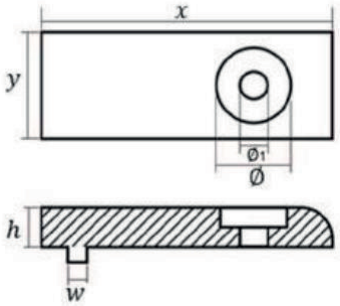
ANODO MERCURY VERADO V6 *880653*



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

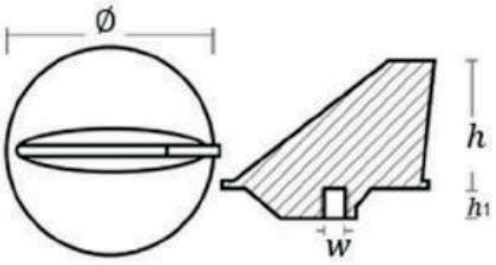
ANODO MERCURY TRIM VERADO 6

892227 / 893404



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

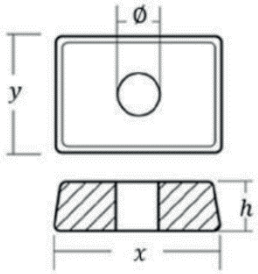
ANODO MERCURY LEME 35 HP + ***31640***



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

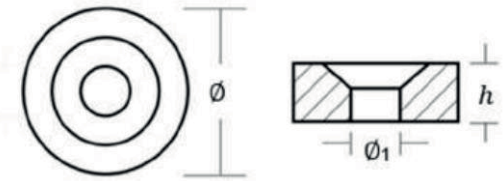
ANODO MERCURY 4 – 9,9 HP

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



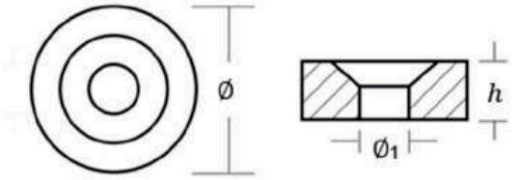
	Ref.	R$	Kg	Un.	*x*	*y*	Ø	*h*
Zn	*ZM875208Zn*		*0,025*	***mm***	***28***	***19***	***6,5***	***9***
Al	*ZM875208Al*		*0,010*	*in.*	*1,10”*	*0,75”*	*0,26”*	*0,35”*

ANODO MERCURY 4 - 5 HP ***823912***



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

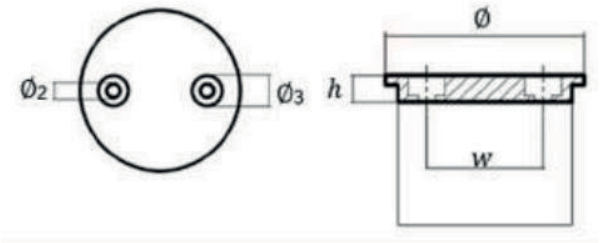
ANODO MERCURY 2.2 - 3.3 HP *823913*



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

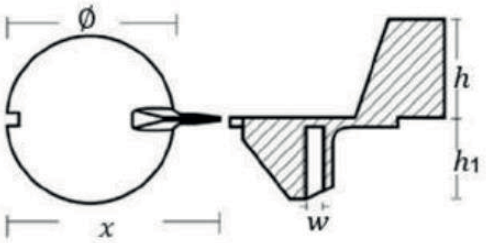
ANODO MERCURY VERADO 350 SCI

847635001



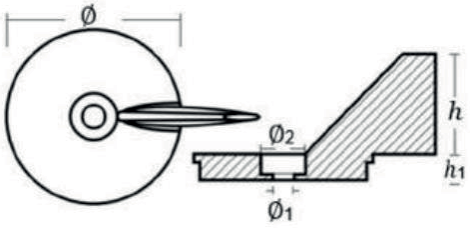
	Ref.	R$	Kg	Un.	w	Ø	Ø 1	Ø 2	Ø 3	h
Zn	ZM847635001Zn		0,888	mm	76	129	112	11	24	17
Al	ZM847635001Al		0,355	in.	2,99”	5,08”	4,41”	0,43”	0,94”	0,67”

ANODO MERCURY LEME 18-25 HP *984325*



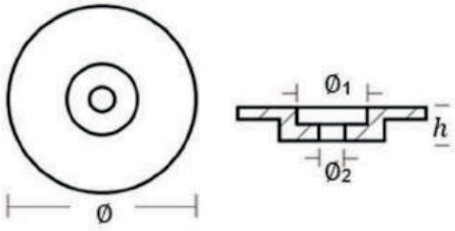
	Ref.	R$	Kg	Un.	Ø	x	w	h	h 1
Zn	ZM984325Zn		0,420	mm	90	114	M8	43	53
Al	ZM984325Al		0,168	in.	3,54”	4,49”		1,69”	2,09”

ANODO MERCURY LEME 50-75 HP *17264T2*



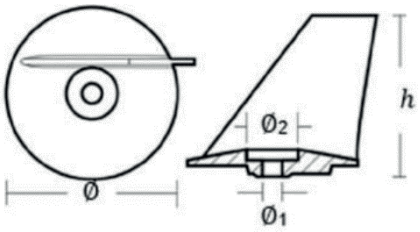
	Ref.	R$	Kg	Un.	Ø	Ø 1	Ø 2	h	h 1
Zn	ZM17264T2Zn		0,505	mm	103	13	26	24	58
Al	ZM17264T2Al		0,202	in.	4,06”	0,51”	1,02”	0,55”	2,28”
Mg	ZM17264T2Mg		0,135						

ANODO DISCO MERCURY 5-15 HP *803731*



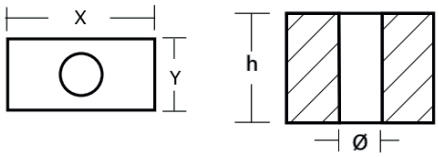
	Ref.	R$	Kg	Un.	Ø	Ø 1	Ø 2	h
Zn	*ZM803731Zn*		*0,075*	***mm***	***60***	***18***	***7***	***13***
Al	*ZM803731Al*		*0,030*	*in.*	*2,36”*	*0,71”*	*0,27”*	*0,51”*

ANODO MERCURY LEME 25-40 HP JAPONÊS *853762*



		Ref.	R$	Kg	Un.	Ø	Ø 1	Ø 2	h
Zn		*ZM853762Zn*		*0,138*	***mm***	***60***	***7***	***18***	***58***
Al		*ZM853762Al*		*0,055*	*in.*	*2,36”*	*0,27”*	*0,71”*	*2,28”*

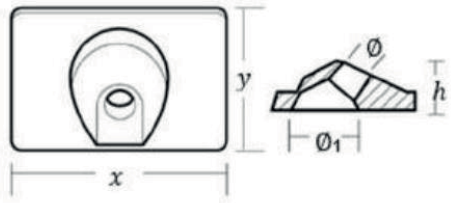
ANODO CUBO MERCURY F25EFI - F30EFI *804043*



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

ANODO LATERAL MERCURY 6-15 HP

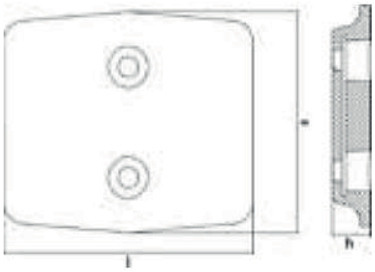
42121Q02 / 42121A



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

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*		*0,735*	***mm***	***140***	***124***	***21***
Al	*ZM8M0137814Al*		*0,295*	*in.*	*5,51”*	*4,88”*	*0,83”*

KIT VERADO 4 E OPTIMAX

	Ref.	R$	Kg	Contém:
Al				*2 unid. ZM826134* *1 unid. ZM762145* *1 unid. ZM818298*
Mg				

KIT VERADO 4 SEAPRO

	Ref.	R$	Kg	Contém:
Al				*2 unid. ZM826134* *1 unid. ZM762145* *1 unid. 8M0057772*
Mg				

KIT VERADO 6

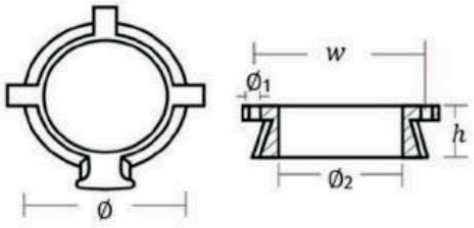
	Ref.	R$	Kg	Contém:
Al				*4 unid. ZM892227* *2 unid. ZM826134* *1 unid. ZM880653* *1 unid. ZM762145*
Mg				

KIT VERADO 4 COM LEME

	Ref.	R$	Kg	Contém:
Al				*2 unid. ZM826134* *1 unid. ZM762145* *1 unid. ZM31640*
Mg				

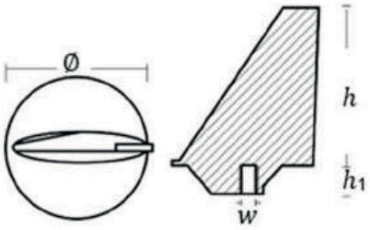
MERCRUISER

ANODO CANHÃO DA RABETA *806105*



	Ref.	R$	Kg	Un.	*w*	Ø	Ø 1	Ø 2	*h*
Al	*ZM806105Al*		*0,090*						
Mg	*ZM806105Mg*		*0,068*						

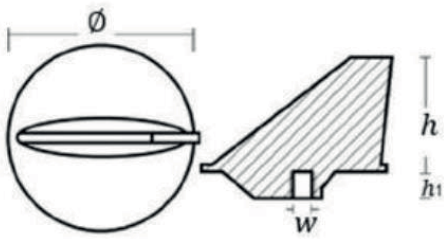
ANODO LEME LONGO MERCRUISER 80 - 140 HP *34127*



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

ANODO MERCRUISER LEME 35 HP +

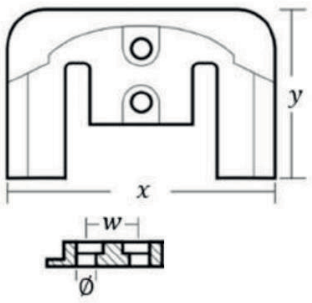
31640



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

ANODO PLACA BRAVO 3 MERCRUISER

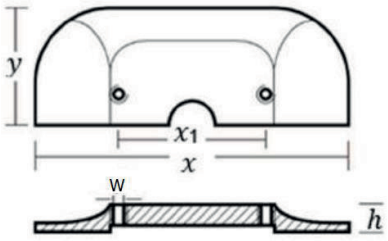
821630



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

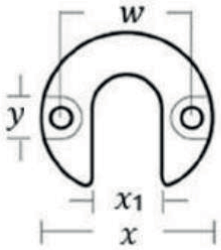
ANODO PLACA ALPHA I MERCRUISER

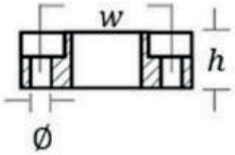
821629



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

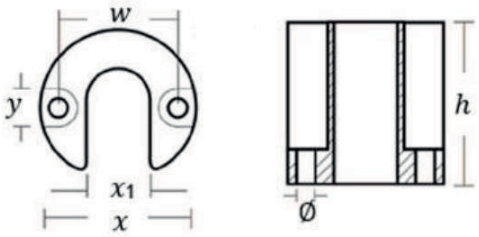
ANODO LIFT-RAM ALPHA I MERCRUISER *806189*





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

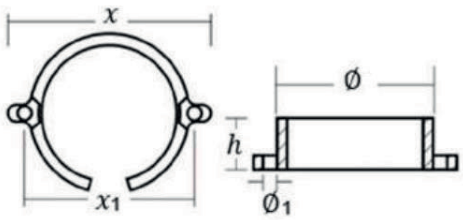
ANODO LIFT-RAM BRAVO 3 MERCRUISER *806190*



	Ref.	R$	Kg	Un.	x	x 1	y	w	Ø	h
Al	ZM806190Al		0,140	mm	49	21	12	38	5,5	49
Mg	ZM806190Mg		0,090	in.	1,93”	0,83”	0,47”	1,50”	0,22”	1,93”

ANODO RABETA BRAVO I MERCRUISER

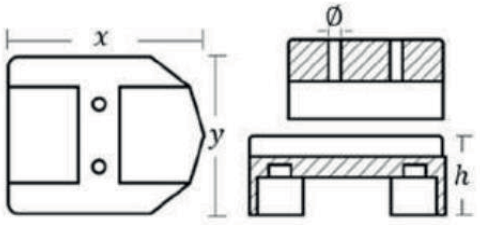
806188



	Ref.	R$	Kg	Un.	x	x 1	Ø	Ø 1	h
Al	ZM806188Al		0,065	mm	88	74	70	5,5	22
Mg	ZM806188Mg		0,045	in.	3,46”	2,91”	2,76”	0,22”	0,87”

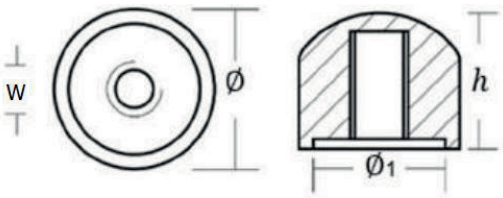
ANODO MERCRUISER ALPHA I GIMBAL

82163



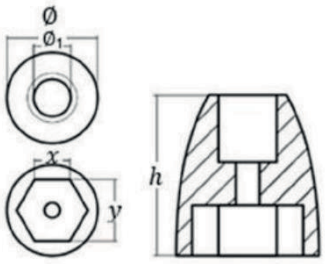
	Ref.	R$	Kg	Un.	*y*	*x*	Ø	*h*
Al	*ZM821631Al*		*0,315*	***mm***	***78***	***103***	***6,5***	***38***
Mg	*ZM821631Mg*		*0,218*	*in.*	*3,07*	*4,06”*	*0,26”*	*1,50”*

ANODO ALPHA I *55989*



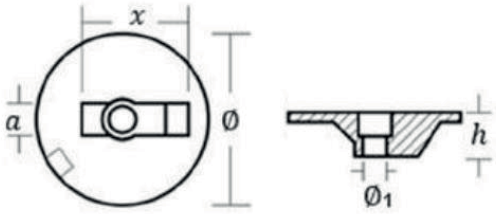
	Ref.	R$	Kg	Un.	Ø	Ø 1	*w*	*h*
Zn	*ZM55989Zn*		*0,108*	***mm***	***31***	***28***	***1/2”***	***30***
Al	*ZM55989Al*		*0,045*	*in.*	*1,22”*	*1,10”*	***unc***	*1,18”*
Mg	*ZM55989Mg*		*0,031*					

ANODO PONTA DO HÉLICE MERCRUISER BRAVO III (2001+) *865182*



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

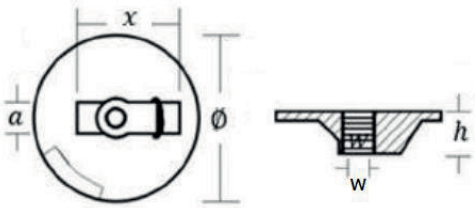
ANODO BRAVO 3 MERCRUISER *762144* (S/ROSCA)



	Ref.	R$	Kg	Un.	Ø	Ø 1	*x*	*a*	*h*
Al	*ZM762144Al*		*0,110*	***mm***	***90***	***13***	***56***	***16***	***24***
Mg	*ZM762144Mg*		*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		0,120	mm	90	58	7/16"	21	24
Mg	ZM762145Mg		0,080	in.	3,62"	2,28"	unc	0,83"	0,94"

KIT BRAVO I

	Ref.	R$	Kg	Contém:
Al				*2 unid. ZM806190* *1 unid. ZM762145* *1 unid. ZM821630* *1 unid. ZM806188*
Mg				

KIT BRAVO II BRAVO III

	Ref.	R$	Kg	Contém:
Al				*2 unid. ZM806190* *1 unid. ZM762145* *1 unid. ZM821630*
Mg				

KIT BRAVO III (2004+)

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

KIT ALPHA I

	Ref.	R$	Kg	Contém:
Al				*2 unid. ZM55989* *1 unid. ZM821631* *1 unid. ZM31640*
Mg				

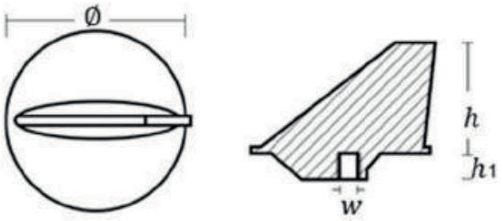
KIT ALPHA I GERAÇÃO II

	Ref.	R$	Kg	Contém:
Al				*2 unid. ZM806189* *1 unid. ZM821631* *1 unid. ZM806105* *1 unid. ZM821629* *1 unid. ZM762145*
Mg				

HONDA

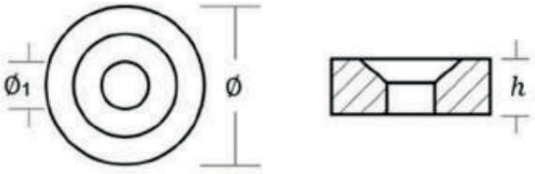
ANODO DIRECIONAL HONDA

41107ZW1003ZA/31640



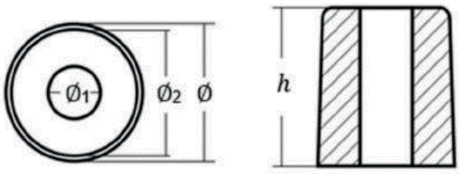
	Ref.	R$	Kg	Un.	Ø	w	h	h1
Zn	ZM41107ZW1003ZAZn		0,450	mm in.	91 3,58”	7/16”	61 2,40”	19 0,75”
Al	ZM41107ZW1003ZAAl		0,180					
Mg	ZM41107ZW1003ZAMg		0,120					

ANODO HONDA 8-20 HP *41106ZW000*



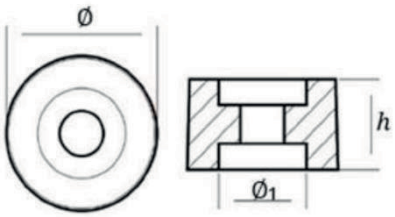
	Ref.	R$	Kg	Un.	Ø	Ø 1	h
Zn	ZM4106ZW000Zn		0,020	mm in.	24 0,94”	6,35 0,25”	6,35 0,25”
Al	ZM4106ZW000Al		0,008				

ANODO HONDA BF 8-40HP *12155ZV4A00*



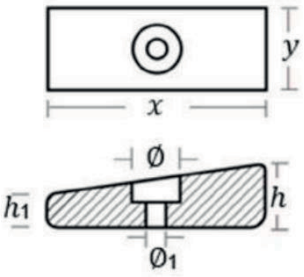
	Ref.	R$	Kg	Un.	Ø	Ø 1	Ø 2	h
Zn	ZM12155ZV4A00Zn		0,012	mm	13	5,5	12	16
Al	ZM12155ZV4A00Al		0,006	in.	0,51”	0,22”	0,47”	0,63”

ANODO HONDA BF 75-130HP *12155ZV5000*



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

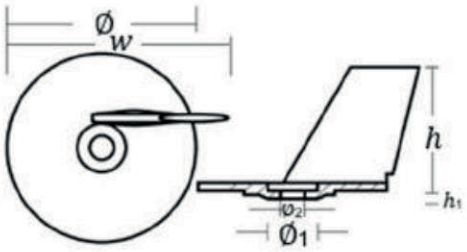
ANODO HONDA BF 75-90HP (1997-1998 *41109ZW1003*



	Ref.	R$	Kg	Un.	x	y	Ø	Ø 1	h	h 1
Zn	*ZM41109ZW1003Zn*		*0,245*	***mm*** *in.*	***77*** *3,03”*	***30*** *1,18”*	***17*** *0,67”*	***7*** *0,28”*	***22*** *0,87”*	***12*** *0,47”*
Al	*ZM41109ZW1003Al*		*0,094*							
Mg	*ZM41109ZW1003Mg*		*0,062*							

SUZUKI

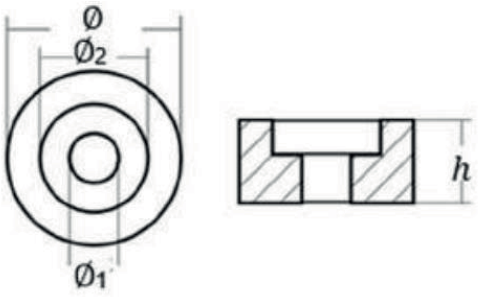
ANODO DIRECIONAL MOTOR SUZUKI 20-35 HP *5512596310*



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

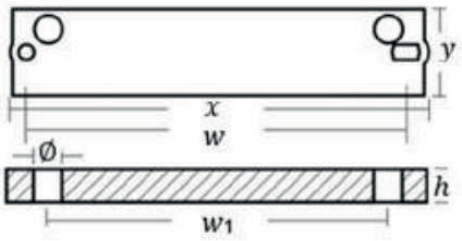
ANODO MOTORES SUZUKI *5532187J00*

Johnson-Evinrude 2-6 / 25-225 Hp



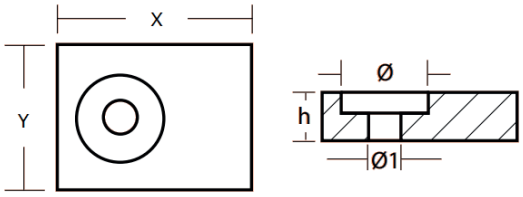
	Ref.	R$	Kg	Un.	Ø	Ø 1	Ø 2	h
Zn	ZM5532187J00Zn		0,035	mm	21	6	13	10
Al	ZM5532187J00Al		0,015	in.	0,83”	0,24”	0,51”	0,39”

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



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

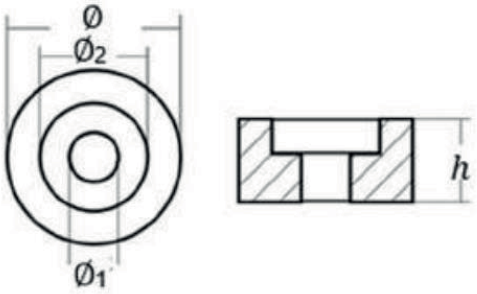
ANODO SUZUKI *55320-95310*



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

JOHNSON/EVINRUDE

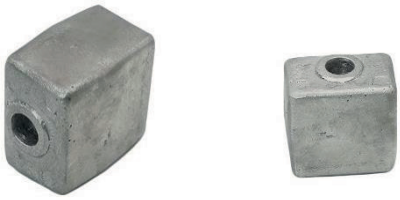
ANODO JOHNSON/EVINRUDE 2-6 / 25-225 Hp *5031705*

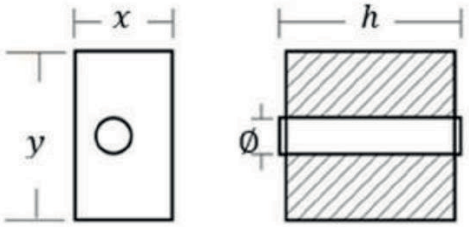


	Ref.	R$	Kg	Un.	Ø	Ø 1	Ø 2	h
Zn	ZM5031705Zn		0,035	mm	21	6	13	10
Al	ZM5031705Al		0,015	in.	0,83”	0,24”	0,51”	0,39”

ANODO EVINRUDE/JOHNSON *393023 – 0436745*

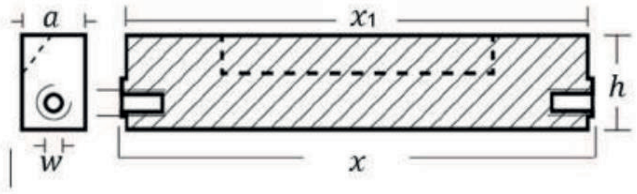
OMC 50-140 / Johnson – Evinrude 50-225HP (1987-1998)





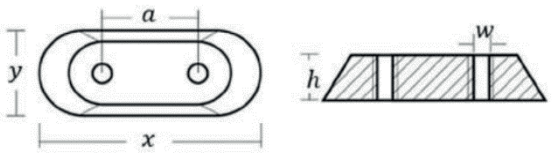
	Ref.	R$	Kg	Un.	x	y	Ø	h
Zn	ZM393023Zn		0,213	mm	25	40	8	41
Al	ZM393023Al		0,085	in.	0,98”	1,57”	0,31”	1,61”

ANODO EVINRUDE/JOHNSON CAVALETE E-TEC 60-300 HP *5007089*



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

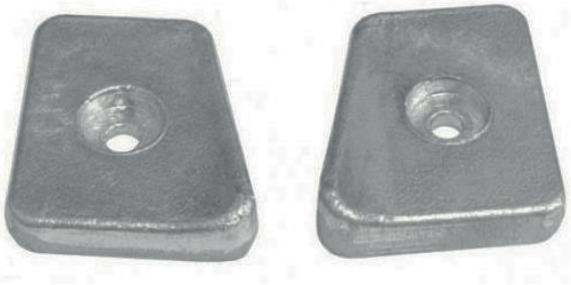
ANODO LATERAL (OMC/JOHNSON EVINRUDE) *173029-123009-327606*

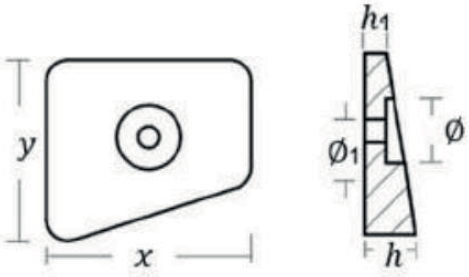


	Ref.	R$	Kg	Un.	x	y	w	a	h
Zn	ZM123009Zn		0,075	mm	60	23	M5	25	12
Al	ZM123009Al		0,030	in.	2,36”	0,91”		0,98”	0,47”

ANODO EVINRUDE JOHNSON 25-35 HP

434029



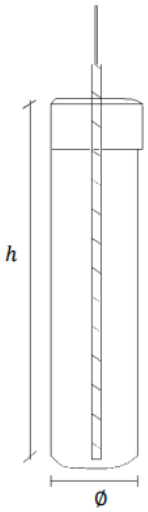


	Ref.	R$	Kg	Un.	x	y	Ø	Ø 1	h	h 1
Zn	ZM434029Zn		0,187	mm	49	41	14	6	12	6
Al	ZM434029Al		0,075	in.	1,92”	1,61”	0,55”	0,24”	0,47”	0,24”

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

	Ref.	R$	Kg	Contém:
Zn				*1 unid. ZM500924100* *1 unid. ZM393023*
Al				

ANODO SUSPENSO



	Ref.	R$	Kg	Un.	Ø	h
Al	ZMASAl		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*		*0,315*
Conjunto de terminais de chumbo positivo e negativo com parafuso do poste com encaixe na peça			

	Ref.	R$	Kg
Pb	*ZMTBF*		*0,315*
Conjunto de terminais de chumbo positivo e negativo com parafuso do poste fundido na peça			

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.	Ø	Ø 1	h	h 1
Zn	ZMCFGZn		0,800	mm	97	72	20	7

CADINHO DE ZINCO RAIADO

	Ref.	R$	Kg	Un.	Ø	Ø 1	h	h 1
Zn	ZMCRGZn		0,680	mm	91	77	19,5	7
Zn	ZMCRPZn		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*		***mm*** *in.*	***125*** *4,92”*	***50*** *1,96”*	***1 1/8” X 3/4” NPT***
Mg	*ZMAQ750Mg*		***mm*** *in.*	***130*** *5,11”*	***80*** *3,14”*	***1 1/8” X 3/4” NPT***
Mg	*ZMAQ800Mg*		***mm*** *in.*	***140*** *5,51”*	***48*** *1,88”*	***1 1/8” X 3/4” NPT***
Mg	*ZMAQ1000Mg*		***mm*** *in.*	***148*** *5,82”*	***48*** *1,88”*	***1 1/8” X 3/4” NPT***
Mg	*ZMAQ1500Mg*		***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

RUA LUIZA JULIA IZIDORO, 242 PONTO AZUL - TRÊS RIOS RJ
CEP: 25821-150