

# **LEIRIMAE L**

## **Tabela de Preços 2025**

**Material para Bobinagem**

**Escovas de carvão**

**Transformadores**

**Material Eléctrico**

**Induzidos novos e reparados**

**Rua da Barcaria , N° 407**

**Parceiros**

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**www.leirimael.com**

**Desde 2007 ao serviço dos bobinadores e da bobinagem**

## **CONDIÇÕES GERAIS DE VENDA**

1 ) Exceptuando acordo prévio em contrário e confirmado pela LEIRIMAEL, Lda, as condições gerais de venda são as seguintes:

2 ) As tabelas podem ser alteradas sem aviso prévio.

3 ) Os preços são acrescidos de IVA à taxa em vigor.

4 ) Descontos para quantidades.

5 ) As mercadorias serão facturadas aos preços e condições em vigor na data da execução.

6 ) Condições de pagamento: Desconto financeiro

6 A ) Contra a entrega da mercadoria: 2%

6 B ) Até 30 dias da data da Factura: 1%

6 C ) Pagamento máximo permitido: 60 Dias.

7 ) Após os 60 dias, as mercadorias serão entregues, mediante a cobrança das facturas já vencidas ( com mais de 60 dias )

8 ) Os clientes cujas facturas ainda não tenham sido regularizadas até aos 90 dias , ficam com o crédito suspenso. e as mercadorias facturadas serão sempre à cobrança até que seja concedido pela Leirimael, Lda um novo crédito.

9 ) Os clientes com facturas com mais de 120 dias e / ou a emissão de um cheque sem provisão implica o cancelamento imediato do crédito concedido durante um periodo minimo de 365 dias.

10 ) A Leirimael, Lda , reserva-se o direito de facturar juros a 8 % de mora ao abrigo da portaria 807-U1/83 de Julho.

11 ) Encomendas de valor inferior a 50,00 € serão processadas como fatura recibo e pagas no acto da entrega.

12 ) Salvo as encomendas entregues pelas nossas viaturas, a mercadoria viaja por conta e risco do cliente.

13 ) Mercadorias transportadas por terceiros: o cliente deve conferir a quantidade e qualidade da mercadoria. No caso de notar alguma anomalia, deve registar a respectiva anomalia antes de assinar. Não se verificando este procedimento, não podemos aceitar quaisquer reclamações.

14 ) As reclamações e devoluções só serão aceites no prazo máximo de 10 dias úteis após a entrega da mercadoria, devendo sempre ser indicado a razão da devolução, o número e a data da nossa factura.

15 ) As mercadorias relacionadas nas nossas facturas são vendidas com reserva de propriedade pelo que são propriedade da Leirimael, Lda , até ao pagamento integral das mesmas.

16 ) FORO: O da comarca de LEIRIA, com expressa renúncia a qualquer outro.

Leiria, 7 de Fevereiro de 2007

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Preço dos despachos

Até 5 Kgs :	6,000 €	De 30 a 40 Kgs :	13,50 €
De 5 a 10 Kgs :	7,00 €	De 40 a 50 Kgs :	18,50 €
De 10 a 20 Kgs :	8,00 €	De 50 a 60 Kgs :	23,50 €
De 20 a 30 Kgs :	11,00 €	De 60 a 70 Kgs :	28,50 €

**Fio de cobre classe HC grau II Julho 2024**

Código	Diâmetro	€/ Kg	Código	Diâmetro	€/ Kg
110160	0,160 mm	15,05 €	110950	0,950 mm	13,15 €
110180	0,180 mm	14,75 €	111000	1,000 mm	13,15 €
110200	0,200 mm	14,55 €	111060	1,060 mm	13,15 €
110224	0,224 mm	14,35 €	111100	1,100 mm	13,15 €
110250	0,250 mm	14,25 €	111120	1,120 mm	13,15 €
110280	0,280 mm	14,05 €	111150	1,150 mm	13,15 €
110300	0,300 mm	14,00 €	111180	1,180 mm	13,15 €
110315	0,315 mm	13,85 €	111200	1,200 mm	13,15 €
110335	0,335 mm	13,85 €	111250	1,250 mm	13,15 €
110355	0,350 mm	13,80 €	111300	1,300 mm	13,15 €
110375	0,380 mm	13,75 €	111320	1,320 mm	13,15 €
110400	0,400 mm	13,75 €	111350	1,350 mm	13,15 €
110420	0,420 mm	13,75 €	111400	1,400 mm	13,15 €
110450	0,450 mm	13,60 €	111450	1,450 mm	13,15 €
110475	0,480 mm	13,60 €	111500	1,500 mm	13,15 €
110500	0,500 mm	13,55 €	111600	1,600 mm	13,20 €
110530	0,530 mm	13,55 €	111700	1,700 mm	13,30 €
110560	0,560 mm	13,50 €	111800	1,800 mm	13,40 €
110600	0,600 mm	13,45 €	112000	2,000 mm	13,40 €
110630	0,630 mm	13,40 €	112240	2,240 mm	13,40 €
110650	0,650 mm	13,35 €	112360	2,360 mm	13,40 €
110670	0,670 mm	13,35 €	112500	2,500 mm	13,40 €
110710	0,710 mm	13,30 €	112650	2,650 mm	13,40 €
110750	0,750 mm	13,25 €	112700	2,700 mm	13,40 €
110800	0,800 mm	13,25 €	112800	2,800 mm	13,40 €
110850	0,850 mm	13,20 €	113000	3,000 mm	13,40 €
110900	0,900 mm	13,20 €			



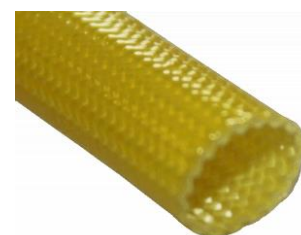
O fio de cobre  
é cotado mensalmente  
Solicite a sua cotação

Outros  
diâmetros  
sob  
consulta

Barra de cobre  
sob  
consulta

**Tela de fibra de vidro com verniz poliuretano classe F 3,0 kv**

Código	Diâmetro	€/ Mt	Código	Diâmetro	€/ Mt
130005	0,5 mm	0,18 €	130040	4,0 mm	0,38 €
130008	0,8 mm	0,19 €	130050	5,0 mm	0,41 €
130010	1,0 mm	0,20 €	130060	6,0 mm	0,46 €
130015	1,5 mm	0,23 €	130070	7,0 mm	0,57 €
130020	2,0 mm	0,26 €	130080	8,0 mm	0,69 €
130025	2,5 mm	0,29 €	130180	18,0 mm	2,75 €
130030	3,0 mm	0,32 €	130200	20,0 mm	3,55 €
130035	3,5 mm	0,34 €			



**Tela de fibra de vidro com resina de silicone classe H 2,5 Kv**

Código	Diâmetro	€ / Mt	Código	Diâmetro	€ / Mt
131005	0,5 mm	0,23 €	131070	7,0 mm	0,75 €
131008	0,8 mm	0,24 €	131080	8,0 mm	0,85 €
131010	1,0 mm	0,26 €	131090	9,0 mm	1,05 €
131015	1,5 mm	0,28 €	131100	10,0 mm	1,10 €
131020	2,0 mm	0,31 €	131120	12,0 mm	1,30 €
131025	2,5 mm	0,36 €	131140	14,0 mm	1,50 €
131030	3,0 mm	0,40 €	131160	16,0 mm	2,05 €
131035	3,5 mm	0,44 €	131180	18,0 mm	2,95 €
131040	4,0 mm	0,48 €	131200	20,0 mm	3,45 €
131050	5,0 mm	0,54 €	131240	24,0 mm	4,60 €
131060	6,0 mm	0,64 €	131300	30,0 mm	8,82 €

Vermelha  
Preta  
Branca

**Tela de fibra de vidro com resina de silicone classe H 4 Kv**

Código	Diâmetro	€ / Mt	Código	Diâmetro	€ / Mt
132005	0,5 mm	0,26 €	132070	7,0 mm	0,94 €
132008	0,8 mm	0,27 €	132080	8,0 mm	1,10 €
132010	1,0 mm	0,28 €	132090	9,0 mm	1,25 €
132015	1,5 mm	0,31 €	132100	10,0 mm	1,40 €
132020	2,0 mm	0,35 €	132120	12,0 mm	1,65 €
132025	2,5 mm	0,41 €	132140	14,0 mm	2,10 €
132030	3,0 mm	0,46 €	132160	16,0 mm	2,60 €
132035	3,5 mm	0,53 €	132180	18,0 mm	3,20 €
132040	4,0 mm	0,56 €	132200	20,0 mm	3,80 €
132050	5,0 mm	0,63 €	132240	24,0 mm	5,10 €
132060	6,0 mm	0,77 €	132300	30,0 mm	9,90 €



Vermelha  
Preta  
Branca

**Tela de fibra de vidro com resina de silicone classe C 7 Kv**

Código	Diâmetro	€ / Mt
132792	12,0 mm	2,20 €

Vermelha

**Cartão hidráulico classe A 105°**

Código	Diâmetro	€/Kg	Código	Diâmetro	€/Kg
134015	0,15 mm	7,50 €	134025	0,25 mm	6,50 €
134020	0,20 mm	7,50 €	134030	0,30 mm	6,50 €



**Cartão hidráulico com polyester classe B 130°**

133015	0,15 mm	12,90 €	133025	0,25 mm	10,40 €
133020	0,20 mm	10,90 €	133030	0,30 mm	9,80 €

**Film Polyester classe B 130°**

136012	0,125 mm	11,45 €	136025	0,25 mm	9,50 €
136019	0,19 mm	9,50 €	136035	0,35 mm	10,40 €



**DMD / Triplex / Voltaflex classe F 155°**

135018	0,18 mm	20,90 €	135030	0,30 mm	15,90 €
135023	0,23 mm	18,40 €	135035	0,35 mm	15,80 €

**Cartão Thermofase classe F 155°**

139030	0,30 mm	23,00 €
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**Nomex / Polyester (NM) classe F / H 155 / 180°**

138120	0,20 mm	34,80 €	138130	0,30 mm	26,50 €
138125	0,25 mm	29,60 €			

**TFT / Tufquin classe H 180°**

137018	0,18 mm	32,80 €	137036	0,36 mm	25,20 €
137023	0,23 mm	29,70 €	137041	0,41 mm	23,60 €
137029	0,29 mm	27,40 €	137046	0,46 mm	22,10 €



**Nomex / Polyester / Nomex (NMN) classe H 180°**

138019	0,19 mm	44,60 €	138037	0,37 mm	29,70 €
138024	0,24 mm	37,70 €	138041	0,41 mm	27,50 €
138031	0,31 mm	32,80 €			

IVA a incluir à taxa em vigor

Esta tabela pode ser alterada sem aviso prévio

**Cordel de atar**

Código	Diâmetro	€ / rolo
147004	4 fios x 1 kg	15,50 €
147006	6 fios x 1 kg	15,50 €
147009	9 fios x 1 kg	15,50 €
147012	12 fios x 1 kg	15,50 €
147015	15 fios x 1 kg	15,50 €

**Fita de Nastro**

Código	Diâmetro	€ / rolo
143008	8 mm x 100 mt	6,10 €
143010	10 mm x 100 mt	6,30 €
143012	12 mm x 100 mt	6,70 €
143014	14 mm x 100 mt	7,10 €
143016	16 mm x 100 mt	7,90 €
143020	20 mm x 100 mt	9,20 €
143024	24 mm x 100 mt	11,10 €
143028	28 mm x 100 mt	13,50 €

**Fita de Vidro**

Código	Diâmetro	€ / rolo
143050	10 mm x 50 mt	5,12 €
143055	15 mm x 50 mt	6,35 €
143060	20 mm x 50 mt	7,05 €
143065	25 mm x 50 mt	8,10 €
143070	30 mm x 50 mt	9,20 €

**Fita adesiva de Kapton  
Cl. H 180 ° / adesivo de silicone**

Código	Diâmetro	€ / rolo
143512	12 mm x 33 mt	9,40 €
143519	19 mm x 33 mt	14,40 €
143525	25 mm x 33 mt	18,90 €

**Fita adesiva de Polyester amarela  
Classe B 130 °**

Código	Diâmetro	€ / rolo
143112	12 mm x 66 mt	2,10 €
143119	19 mm x 66 mt	3,20 €
143125	25 mm x 66 mt	4,20 €

**Fita adesiva de Film Polyester  
reforçado com fibra de vidro - Cl. F 155 °**

Código	Diâmetro	€ / rolo
143412	12 mm x 50 mt	3,20 €
143419	19 mm x 50 mt	5,10 €
143425	25 mm x 50 mt	6,70 €

**Fita adesiva de tecido de Vidro  
Classe F 155 ° / adesivo Acrílico**

Código	Diâmetro	€ / rolo
143312	12 mm x 50 mt	12,65 €
143319	19 mm x 50 mt	16,90 €
143325	25 mm x 50 mt	23,65 €

**Fita adesiva de Polyester e fibra de  
Vidro - Classe F 155 °**

Código	Diâmetro	€ / rolo
143212	12 mm x 50 mt	8,90 €
143220	20 mm x 50 mt	12,50 €

**Fita adesiva Poliglass para  
rotors de motores - Cl. H 180 °**

Código	Diâmetro	€ / rolo
143920	0,30 x 20 mm x 200 mt	75,00 €
143925	0,30 x 25 mm x 200 mt	78,00 €
143930	0,30 x 30 mm x 200 mt	80,50 €



Cordel de atar



Fita de nastro muito resistente



Fita de polyester AMARELA



Fita de Film Poly. reforçada



Fita adesiva de tecido de vidro



Fita adesiva de Kapton



Fita adesiva Poliglass

**Cunhas de polyester  
0,25 mm classe B**

Código	Diâmetro	€ / Mt
156010	10 x 1000 mm	0,14 €
156012	12 x 1000 mm	0,15 €
156014	14 x 1000 mm	0,16 €
156015	15 x 1000 mm	0,17 €
156016	16 x 1000 mm	0,19 €
156018	18 x 1000 mm	0,20 €
156020	20 x 1000 mm	0,22 €
156025	25 x 1000 mm	0,25 €

**Cunhas de D M D / Triplex  
0,36 mm classe F**

Código	Diâmetro	€ / Mt
156610	10 x 1000 mm	0,21 €
156612	12 x 1000 mm	0,23 €
156614	14 x 1000 mm	0,25 €
156616	16 x 1000 mm	0,27 €
156618	18 x 1000 mm	0,29 €
156621	21 x 1000 mm	0,31 €
156624	24 x 1000 mm	0,33 €

**Cunhas de N M N  
0,36 mm classe H**

Código	Diâmetro	€ / Mt
156710	10 x 1000 mm	0,22 €
156712	12 x 1000 mm	0,24 €
156714	14 x 1000 mm	0,27 €
156715	15 x 1000 mm	0,28 €
156716	16 x 1000 mm	0,29 €
156718	18 x 1000 mm	0,31 €
156721	21 x 1000 mm	0,33 €
156724	24 x 1000 mm	0,36 €

**Tafifes de Madeira**

Código	Dimensões	€ / Un
156203	3,0 x 1,8 x 1000 mm	0,39 €
156204	4,0 x 2,1 x 1000 mm	0,42 €
156205	5,0 x 2,5 x 1000 mm	0,46 €
156206	6,0 x 3,0 x 1000 mm	0,50 €
156207	7,0 x 3,5 x 1000 mm	0,55 €
156208	8,0 x 4,0 x 1000 mm	0,60 €
156209	9,0 x 4,2 x 1000 mm	0,66 €
156210	10,0 x 4,5 x 1000 mm	0,72 €



**Tafifes em fibra de vidro  
1 / 2 cana**

Código	Dimensões	€ / Un
156304	4,0 x 2,0 x 1000 mm	0,56 €
156305	5,0 x 2,5 x 1000 mm	0,63 €
156306	6,0 x 3,0 x 1000 mm	0,72 €
156307	7,0 x 3,5 x 1000 mm	0,80 €
156308	8,0 x 4,0 x 1000 mm	0,90 €
156310	10,0 x 4,5 x 1000 mm	1,20 €



**Tafifes em fibra de vidro  
facetados**

Código	Dimensões	€ / Un
156400	5,0 x 2,0 x 1000 mm	0,68 €
156405	5,7 x 2,0 x 1000 mm	0,69 €
156411	6,0 x 3,0 x 1000 mm	0,69 €
156415	6,1 x 2,0 x 1000 mm	0,78 €
156420	6,8 x 2,0 x 1000 mm	0,84 €
156425	7,0 x 3,0 x 1000 mm	0,71 €
156430	8,0 x 3,0 x 1000 mm	0,76 €
156435	9,0 x 3,0 x 1000 mm	0,83 €
156440	10,5 x 3,0 x 1000 mm	1,04 €
156445	12,0 x 3,0 x 1000 mm	1,14 €



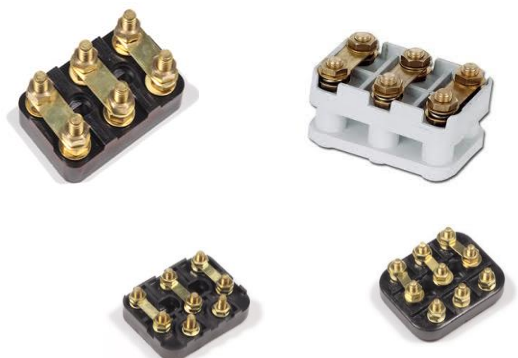
Em pacotes de 100 mt

**Placas de bornes**

**Cabo de silicone**

Código	Modelo	€ / Un
160040	40 x 25 M 4	3,35 €
160050	50 x 32 M 4	3,80 €
160054	54 x 34 M 4 esp.	4,10 €
160056	56 x 36 M 5	4,20 €
160064	64 x 40 M 5 esp.	6,20 €
160070	70 x 45 M 6	6,40 €
160080	82 x 52 M 6	7,50 €
160082	82 x 52 M 8	11,30 €
160095	95 x 60 M 8	11,80 €
160096	95 x 60 M 10 esp.	18,20 €
160110	115 x 70 M 8 esp.	18,90 €
160115	115 x 70 M 10	22,60 €
160125	125 x 80 M 12	29,80 €
160145	145 x 90 M 14	68,20 €
160165	165 x 100 M 16	101,40 €
160240	240 x 150 M 20	200,80 €

160260	50 x 40 M 4 ( 8 pernos )	5,10 €
160270	40 x 40 M 4 ( 9 pernos )	7,25 €
160280	50 x 50 M 4 ( 9 pernos )	7,65 €
160282	65 x 65 M 6 ( 9 pernos )	9,85 €
160285	64 x 46 M 4 ( 12 pernos )	6,35 €
160286	72 x 52 M 5 ( 12 pernos )	10,55 €
160290	50 x 32 M 5 anti deflagrante	30,70 €
160295	77 x 49 M 6 anti deflagrante	40,15 €
160300	120 x 75 M12 anti deflagrante	98,40 €



Código	Diâmetro	€ / mt.
149005	0,50 mm	0,31 €
149007	0,75 mm	0,38 €
149010	1,00 mm	0,52 €
149015	1,50 mm	0,70 €
149025	2,50 mm	1,10 €
149040	4,00 mm	1,65 €
149060	6,00 mm	2,45 €
149100	10,00 mm	4,20 €
149160	16,00 mm	6,10 €
149250	25,00 mm	9,80 €
149350	35,00 mm	12,95 €
149500	50,00 mm	18,90 €

**Cabo de silicone com fibra de vidro**

Código	Diâmetro	€ / mt.
150005	0,50 mm	0,39 €
150007	0,75 mm	0,44 €
150010	1,00 mm	0,60 €
150015	1,50 mm	0,79 €
150025	2,50 mm	1,25 €
150040	4,00 mm	1,93 €
150060	6,00 mm	2,86 €
150100	10,00 mm	4,78 €
150160	16,00 mm	6,82 €
150250	25,00 mm	10,92 €
150350	35,00 mm	14,35 €
150500	50,00 mm	21,63 €
150700	70,00 mm	26,52 €
150950	95,00 mm	30,68 €



**Azul**  
**Preto**  
**Castanho**  
**Vermelho**



**Branco com risca azul**  
**ou**  
**Branco com risca vermelha**  
**ou**  
**Branco**

Os preços dos cabos em cobre podem variar  
consoante o valor do LME ( cobre )

**Condensadores de serviço permanente**

Código	Cabo		€/ Un	Código	Terminais		€/ Un
	Capacidade / medidas				Capacidade / medidas		
152010	1,0	30 x 56	2,55 €	153010	1,0	30 x 55	2,33 €
152015	1,5	30 x 56	2,65 €	153015	1,5	30 x 55	2,44 €
152020	2,0	30 x 56	2,76 €	153020	2,0	30 x 55	2,54 €
152025	2,5	30 x 56	2,92 €	153025	2,5	30 x 55	2,70 €
152030	3,0	30 x 56	3,08 €	153030	3,0	30 x 55	2,86 €
152040	4,0	30 x 56	3,23 €	153040	4,0	30 x 55	3,02 €
152045	4,5	30 x 55	3,34 €				
152050	5,0	30 x 56	3,45 €	153050	5,0	30 x 55	3,23 €
152060	6,0	30 x 56	3,56 €	153060	6,0	30 x 55	3,40 €
152080	8,0	32 x 56	3,82 €	153080	8,0	32 x 55	3,60 €
152100	10,0	36 x 58	4,03 €	153100	10,0	36 x 58	3,82 €
152120	12,0	36 x 58	4,24 €	153120	12,0	36 x 58	4,13 €
152125	12,5	35 x 70	4,46 €	153125	12,5	35 x 70	4,13 €
152140	14,0	35 x 70	4,67 €	153140	14,0	35 x 70	4,45 €
152160	16,0	35 x 70	4,88 €	153160	16,0	35 x 70	4,66 €
152180	18,0	40 x 70	5,15 €	153180	18,0	40 x 70	4,93 €
152200	20,0	40 x 70	5,36 €	153200	20,0	40 x 70	5,14 €
152250	25,0	45 x 70	5,57 €	153250	25,0	45 x 70	5,35 €
152300	30,0	45 x 70	5,89 €	153300	30,0	45 x 70	5,67 €
152350	35,0	45 x 92	6,36 €	153350	35,0	45 x 92	6,15 €
152400	40,0	45 x 92	7,00 €	153400	40,0	45 x 92	6,79 €
152450	45,0	50 x 92	7,58 €	153450	45,0	50 x 92	7,37 €
152500	50,0	50 x 92	8,38 €	153500	50,0	50 x 92	8,16 €
152550	55,0	50 x 117	8,75 €	153600	60,0	50 x 117	8,90 €
152600	60,0	50 x 117	9,12 €	153650	65,0	50 x 117	9,96 €
152700	70,0	50 x 117	10,82 €	153700	70,0	50 x 117	10,60 €
152800	80,0	55 x 120	11,88 €	153800	80,0	55 x 120	11,66 €
				153900	90,0	55 x 120	13,25 €
				153910	100,0	60 x 120	14,75 €

Condensadores com cabo de  
8 - 10 - 12 - 25 e 30  
tamanho reduzido



**Condensadores de arranque**

154064	64 a 077	36,5 x 083	7,74 €
154088	88 a 106	45,5 x 100	9,43 €
154108	108 a 130	45,5 x 100	9,96 €
154125	130 a 156	45,5 x 100	11,34 €
154161	161 a 193	45,5 x 100	12,51 €
154189	189 a 227	45,5 x 100	14,00 €
154220	216 a 260	52,0 x 125	15,37 €
154243	243 a 292	52,0 x 125	16,22 €
154270	270 a 324	52,0 x 125	17,17 €

**Condensadores com RELÉ**

155050	50 / 1 Hp	50 x 095	44,00 €
155080	80 / 2 Hp	50 x 120	49,00 €
155100	100 / 3 Hp	60 x 120	56,00 €



IVA a incluir à taxa em vigor

Esta tabela pode ser alterada sem aviso prévio

### Caixas de bornes em plástico

Código	Caixa Nº	Fixação ao motor	Exterior	Altura	Figura	€ / Un
161010	Caixa <b>1B</b> - 45 x 45	fixação ao motor /	57 x 57 exterior x 30 altura	figura A	2,95 €	
161050	Caixa <b>5B</b> - 65 x 65	fixação ao motor /	78 x 78 exterior x 30 altura	figura A	3,60 €	
161020	Caixa <b>2B</b> - 45 x 48	fixação ao motor /	61 x 61 exterior x 31 altura	figura B	2,95 €	
161040	Caixa <b>4B</b> - 55 x 55	fixação ao motor /	71 x 71 exterior x 35 altura	figura B	3,40 €	
161060	Caixa <b>6B</b> - 63 x 63	fixação ao motor /	80 x 80 exterior x 37 altura	figura B	3,80 €	
161030	Caixa <b>3B</b> - 60 x 60	fixação ao motor /	76 x 76 exterior x 34 altura	figura C	3,20 €	
161070	Caixa <b>7B</b> - 73 x 73	fixação ao motor /	90 x 90 exterior x 37 altura	figura C	3,80 €	
161080	Caixa <b>8</b> - 60 x 65	fixação ao motor /	67 x 72 exterior x 24 altura	figura D	3,00 €	
161090	Caixa <b>9</b> - 70 x 70	fixação ao motor /	83 x 83 exterior x 28 altura	figura D	3,40 €	
161085	Caixa <b>8B</b> - 60 x 65	fixação ao motor /	70 x 75 exterior x 31 altura	figura E	3,40 €	
161095	Caixa <b>9B</b> - 70 x 70	fixação ao motor /	83 x 83 exterior x 32 altura	figura E	3,60 €	
161100	Caixa <b>10B</b> - 60 x 60	fixação ao motor /	95 x 95 exterior x 42 altura	figura F	7,50 €	
161110	Caixa <b>11B</b> - 74 x 74	fixação ao motor /	108 x 110 exterior x 42 altura	figura F	8,20 €	
161120	Caixa <b>12B</b> - 74 x 74	fixação ao motor /	118 x 120 exterior x 46 altura	figura F	9,20 €	
161130	Caixa <b>13B</b> - 80 a 86	fixação ao motor /	130 x 130 exterior x 63 altura	figura F	10,40 €	
161140	Caixa <b>14</b> - 60 x 65	fixação ao motor /	87 x 117 exterior x 42 altura	figura G	5,10 €	
161150	Caixa <b>15</b> - 70 x 73	fixação ao motor /	110 x 141 exterior x 54 altura	figura G	5,60 €	
161200	Caixa <b>20</b> - 52 x 52	fixação ao motor /	115 x 123 exterior x 60 altura	figura H	6,00 €	
161210	Caixa <b>21</b> - 52 x 52	fixação ao motor /	115 x 123 exterior x 60 altura	figura H interr.	6,00 €	
161220	Caixa <b>22</b> - 55 x 55	fixação ao motor /	115 x 123 exterior x 60 altura	figura H	6,00 €	
161230	Caixa <b>23</b> - 55 x 55	fixação ao motor /	115 x 123 exterior x 60 altura	figura H interr.	6,00 €	
161240	Caixa <b>24</b> - 60 x 60	fixação ao motor /	115 x 123 exterior x 60 altura	figura H	6,00 €	
161250	Caixa <b>25</b> - 60 x 60	fixação ao motor /	115 x 123 exterior x 60 altura	figura H interr.	6,00 €	
161260	Caixa <b>26</b> - 60 x 65	fixação ao motor /	115 x 123 exterior x 60 altura	figura H	6,00 €	
161270	Caixa <b>27</b> - 60 x 65	fixação ao motor /	115 x 123 exterior x 60 altura	figura H interr.	6,00 €	
161280	Caixa <b>28</b> - 63 x 63	fixação ao motor /	123 x 157 exterior x 60 altura	figura H	7,70 €	
161290	Caixa <b>29</b> - 63 x 63	fixação ao motor /	123 x 157 exterior x 60 altura	figura H interr.	7,70 €	
161300	Caixa <b>30</b> - 65 x 65	fixação ao motor /	123 x 157 exterior x 60 altura	figura H	7,70 €	
161310	Caixa <b>31</b> - 65 x 65	fixação ao motor /	123 x 157 exterior x 60 altura	figura H interr.	7,70 €	
161320	Caixa <b>32</b> - 70 x 70	fixação ao motor /	123 x 157 exterior x 60 altura	figura H	7,70 €	
161330	Caixa <b>33</b> - 70 x 70	fixação ao motor /	123 x 157 exterior x 60 altura	figura H interr.	7,70 €	
161340	Caixa <b>34</b> - 73 x 73	fixação ao motor /	123 x 157 exterior x 60 altura	figura H	7,70 €	
161350	Caixa <b>35</b> - 73 x 73	fixação ao motor /	123 x 157 exterior x 60 altura	figura H interr.	7,70 €	
161500	Caixa <b>50</b> - 60 x 60	fixação ao motor /	85 x 85 exterior x 35 altura	fig. J <b>alumínio</b>	13,00 €	
161510	Caixa <b>51</b> - 73 x 73	fixação ao motor /	91 x 91 exterior x 41 altura	fig. J <b>alumínio</b>	16,00 €	
161520	Caixa <b>52</b> - 82 x 82	fixação ao motor /	123 x 123 exterior x 57 alt.	fig. J <b>alumínio</b>	27,00 €	
161560	Caixa <b>56</b> - 95 x 95	fixação ao motor /	120 x 120 exterior x 50 altura	fig. L <b>alumínio</b>	19,50 €	
161580	Caixa <b>58</b> - 132 x 132	fixação ao motor /	160 x 160 exterior x 62 alt.	fig. L <b>alumínio</b>	29,50 €	



A



B



C



D



E



F



G



H



J



L

### Ventiladores em plástico

Código	D int x D ext x altura	€ / Un	Código	D int x D ext x altura	€ / Un
185080	8,0 x 079 x 19 mm	1,65 €	185252	25,0 x 162 x 30 mm ab2p	3,50 €
185082	8,0 x 088 x 17 mm	1,65 €	185280	28,0 x 172 x 38 mm ab2p	3,90 €
185090	9,0 x 083 x 18 mm	1,65 €	185282	28,0 x 177 x 33 mm ab2p	3,90 €
185100	10,0 x 072 x 17 mm	1,65 €	185284	28,0 x 188 x 42 mm ab2p	4,00 €
185102	10,0 x 088 x 16 mm	1,65 €	185300	30,0 x 188 x 42 mm ab2p	4,40 €
185110	11,0 x 109 x 20 mm abc	1,90 €	185302	30,0 x 200 x 37 mm ab2p	4,50 €
185120	12,0 x 113 x 29 mm 2p	2,10 €	185320	32,0 x 238 x 50 mm ab2p	7,10 €
185122	12,0 x 131 x 29 mm ab2p	2,10 €	185350	35,0 x 188 x 42 mm ab2p	7,50 €
185130	13,0 x 131 x 29 mm ab2p	2,20 €	185352	35,0 x 238 x 50 mm ab2p	8,20 €
185140	14,0 x 123 x 19 mm ab2p	2,20 €	185382	38,0 x 230 x 46 mm ab2p	8,20 €
185142	14,0 x 128 x 24 mm abc	2,00 €	185384	38,0 x 238 x 50 mm ab2p	8,40 €
185144	14,0 x 131 x 29 mm ab2p	2,20 €	185400	40,0 x 230 x 46 mm ab2p	8,40 €
185150	15,0 x 128 x 24 mm abc	2,10 €	185402	40,0 x 238 x 50 mm ab2p	8,40 €
185152	15,0 x 131 x 23 mm ab2p	2,35 €	185404	40,0 x 243 x 48 mm ab2p	8,40 €
185160	16,0 x 148 x 27 mm ab2p	2,45 €	185410	41,0 x 210 x 45 mm ab2p	8,80 €
185170	17,0 x 143 x 28 mm ab2p	2,60 €	185420	42,0 x 294 x 54 mm ab2p	9,20 €
185180	18,0 x 141 x 29 mm ab2p	3,20 €	185440	44,0 x 230 x 46 mm ab2p	9,20 €
185182	18,0 x 162 x 32 mm ab2p	3,20 €	185442	44,0 x 294 x 54 mm ab2p	9,20 €
185190	19,0 x 133 x 20 mm ab2p	3,20 €	185450	45,0 x 230 x 46 mm ab2p	9,60 €
185192	19,0 x 141 x 29 mm ab2p	3,30 €	185452	45,0 x 257 x 54 mm ab2p	10,60 €
185194	19,0 x 144 x 29 mm ab2p	3,30 €	185454	45,0 x 300 x 56 mm ab2p	10,90 €
185200	20,0 x 132 x 25 mm ab2p	3,30 €	185480	48,0 x 328 x 70 mm ab2p	17,50 €
185202	20,0 x 141 x 29 mm ab2p	3,30 €	185500	50,0 x 257 x 54mm ab2p	13,90 €
185204	20,0 x 144 x 29 mm ab2p	3,30 €	185502	50,0 x 328 x 70 mm ab2p	17,50 €
185220	22,0 x 143 x 20 mm ab2p	3,30 €	185550	55,0 x 330 x 65 mm 2p	27,50 €
185222	22,0 x 162 x 32 mm ab2p	3,30 €	185560	56,0 x 330 x 65 mm 2p	27,50 €
185226	22,6 x 144 x 34 mm ab2p	3,30 €	185584	58,0 x 330 x 65 mm 2p	27,50 €
185240	24,0 x 143 x 32 mm ab2p	3,50 €	185600	60,0 x 300 x 56 mm ab2p	27,50 €
185242	24,0 x 157 x 32 mm ab2p	3,50 €	185620	62,0 x 330 x 65 mm 2p	27,50 €
185250	25,0 x 151 x 30 mm ab2p	3,50 €	185650	65,0 x 330 x 65 mm 2p	27,50 €



abc : abraçadeira de cravar



2p : 2 parafusos



ab2p : abraçadeira com 2 parafus.



Também vendemos apenas as abraçadeiras para os nossos ventiladores

### Ventiladores com escatel

Código	D int x D ext x altura	€ / Un	Código	D int x D ext x altura	€ / Un
185380	38 x 200 x 47 mm - 7 pás	26,00 €	185630	63 x 272 x 110 mm - 5 pás	78,00 €
185430	43 x 220 x 57 mm - 5 pás	29,20 €	185632	63 x 380 x 110 mm - 9 pás	83,20 €
185432	43 x 290 x 57 mm - 7 pás	31,20 €	185680	68 x 281 x 115 mm - 5 pás	96,80 €
185520	52 x 240 x 90 mm - 5 pás	34,40 €	185682	68 x 400 x 130 mm - 9 pás	100,90 €
185522	52 x 290 x 90 mm - 9 pás	37,50 €	185742	74 x 340 x 090 mm - 5 pás	113,60 €
185580	58 x 266 x 90 mm - 5 pás	48,90 €	185792	79 x 340 x 090 mm - 5 pás	118,90 €
185582	58 x 300 x 90 mm - 9 pás	48,90 €	185800	80 x 300 x 148 mm - 5 pás	116,50 €
185586	58 x 370 x 90 mm - 9 pás	52,00 €	185900	90 x 420 x 148 mm - 9 pás	135,20 €



Com escatel

IVA a incluir à taxa em vigor

Esta tabela pode ser alterada sem aviso prévio

### Ventiladores de alumínio

Código	D int x D ext x altura	€ / Un	Código	D int x D ext x altura	€ / Un
186690	14.1 x 108 x 20 mm a	10,00 €	186750	38,1 x 238 x 48 mm a	26,20 €
186700	14.1 x 128 x 23 mm a	11,60 €	186755	44,0 x 292 x 54 mm b	60,30 €
186710	19.1 x 142 x 29 mm a	13,80 €	186760	48,0 x 330 x 58 mm b	84,30 €
186720	24.1 x 162 x 30 mm a	15,90 €	186780	10 a 60 x 372 x 77 mm	160,00 €
186730	28.1 x 178 x 33 mm a	19,40 €	186790	10 a 66 x 411 x 80 mm	170,00 €
186740	28.1 x 202 x 36 mm a	23,00 €	186795	10 a 73 x 460 x 85 mm	254,80 €



### Capots em plástico

Código	altura x diam. exterior	€ / Un	Código	altura x diam. exterior	€ / Un
158056	50 x 110 mm c	2,85 €	158082	74 x 155 mm c	4,00 €
158063	69 x 121 mm d	3,40 €	158085	75 x 158 mm c	4,00 €
158065	53 x 122 mm c	3,40 €	158088	80 x 174 mm c	4,50 €
158071	76 x 136 mm d	3,65 €	158090	91 x 174 mm d	4,50 €
158075	65 x 139 mm c	3,65 €	158100	73 x 193 mm c	5,05 €
158080	81 x 154 mm d	4,00 €			



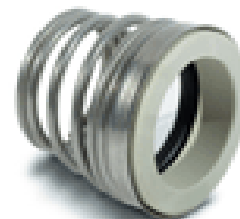
### Capots em metal galvanizados ( fig G )

Código	altura x diam. exterior	€ / Un	Código	altura x diam. exterior	€ / Un
157070	71 x 137 mm fig. G	5,80 €	157132	115 x 257 mm fig. H	13,80 €
157071	64 x 139 mm fig. H	5,20 €	157150	136 x 307 mm fig. G	30,30 €
157075	75 x 154 mm fig. G	6,80 €	157160	140 x 310 mm fig. H	26,30 €
157080	74 x 158 mm fig. H	5,90 €	157170	155 x 346 mm fig. G	56,30 €
157090	78 x 174 mm fig. H	6,80 €	157180	165 x 350 mm fig. H	49,00 €
157095	86 x 175 mm fig. G	7,80 €	157200	200 x 392 mm	88,00 €
157100	91 x 191 mm fig. H	7,90 €	157225	200 x 445 mm	121,00 €
157105	96 x 192 mm fig. G	9,80 €	157250	255 x 485 mm	131,00 €
157110	99 x 217 mm fig. G	13,80 €	157280	290 x 540 mm	197,00 €
157112	95 x 218 mm fig. H	12,00 €	157315	310 x 620 mm	282,00 €
157120	118 x 256 mm fig. G	15,50 €	157355	370 x 690 mm	235,00 €



### Empanques Calpeda em porcelana nbr

Código	Empanque Di x De x A	€ / Un	Código	Sede Di x De x A	€ / Un
201010	10,0 x 19,5 x 15,0	3,83 €	201000	11,0 x 18,1 x 05,5	3,37 €
201011	11,0 x 22,5 x 18,0	4,83 €	201105	12,8 x 20,6 x 05,5	3,59 €
201012	12,0 x 22,5 x 18,0	4,95 €	201110	15,0 x 23,1 x 06,0	3,82 €
201013	13,0 x 24,5 x 22,0	5,06 €	201115	17,0 x 26,9 x 07,0	4,04 €
201014	14,0 x 24,5 x 22,0	5,17 €	201120	18,0 x 26,9 x 07,0	4,26 €
201015	15,0 x 29,0 x 22,0	5,51 €	201125	21,0 x 30,9 x 08,0	4,49 €
201016	16,0 x 29,0 x 23,0	5,96 €	201130	23,0 x 35,4 x 08,0	4,82 €
201017	17,0 x 29,0 x 23,0	6,52 €	201135	25,0 x 35,4 x 08,0	5,17 €
201018	18,0 x 32,5 x 24,0	7,75 €	201140	26,0 x 38,2 x 08,5	8,76 €
201019	19,0 x 32,5 x 24,0	9,10 €	201145	31,0 x 43,3 x 09,0	10,79 €
201020	20,0 x 32,5 x 24,0	10,45 €	201150	33,0 x 43,3 x 09,0	12,36 €
201022	22,0 x 37,5 x 25,0	10,33 €	201155	36,0 x 53,5 x 11,5	16,85 €
201024	24,0 x 37,5 x 27,0	10,67 €	201160	41,0 x 60,5 x 11,5	25,84 €
201025	25,0 x 40,0 x 27,0	14,16 €			
201028	28,0 x 46,0 x 29,0	17,98 €			
201030	30,0 x 46,0 x 30,0	20,22 €			
201032	32,0 x 46,0 x 30,0	22,47 €			
201033	33,0 x 46,5 x 39,0	26,97 €			
201035	35,0 x 49,0 x 39,0	32,58 €			
201038	38,0 x 56,0 x 39,0	40,45 €			
201040	40,0 x 56,0 x 39,0	44,95 €			



Empanque em porcelana e nbr

Sede em carvão e nbr

Estes empanques também podem levar as sedes da página 15

P : 12 bar

V : 12 mt / s

T : 95 °

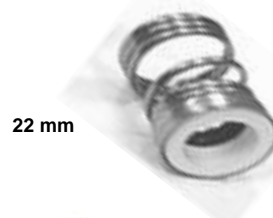
Água limpa doméstica

### Empanques Espa piscinas em carvão nbr

Código	Empanque Di x De x A	€ / Un	Código	Sede Di x De x A	€ / Un
210017	17,0 x 36,5 x 15,0	12,95 €	211100	17,0 x 31,7 x 10,0	3,10 €
210020	20,0 x 40,0 x 17,0	16,25 €	211105	20,5 x 35,0 x 05,0	4,30 €
			211110	20,5 x 35,0 x 10,0	
210022	22 x 37 x 28 mola alta em porcelana ( encaixa no impulsor ) + sede 23 x 37 x 8,5 em carvão	40,00 €			



Espe



22 mm

### Empanques FH piscinas em carvão nbr

211016	15,8 x 31,0 x 19,0	8,80 €	211100	17,0 x 31,7 x 10,0	3,10 €
211017	15,8 x 30,4 x 18,6				
211019	19,1 x 35,0 x 19,0	10,60 €	211110	20,5 x 35,0 x 10,0	4,30 €
211020	19,1 x 32,5 x 17,7				
211030	19,1 x 32,5 x 17,7 FHE	14,75 €			
211025	25,4 x 43,0 x 21,0	15,90 €	218110	26,0 x 41,3 x 11,1	5,00 €
211019A	19,1 x 35,0 x 19,0 silício	27,50 €	219120	20,5 x 35,0 x 10,0 sil	20,00 €



FH

FHE para Espe



IVA a incluir à taxa em vigor

Esta tabela pode ser alterada sem aviso prévio

**Empanques EUROPA em inox nbr**

Código	Empanque Di x De x A	€ / Un	Código	Sede Di x De x A	€ / Un
208010	10,0 x 17,5 x 15,0	15,00 €	208100	11,0 x 21,0 x 07,0	8,40 €
208012	12,0 x 20,0 x 18,0	15,00 €	208105	13,0 x 23,0 x 07,0	8,40 €
208014	14,0 x 23,0 x 22,0	17,00 €	208110	15,0 x 25,0 x 07,0	9,40 €
208015	15,0 x 24,0 x 23,0	17,00 €			
208016	16,0 x 26,0 x 23,0	18,00 €	208115	17,0 x 27,0 x 07,0	9,60 €
208017	17,0 x 27,0 x 23,2	19,00 €			
208018	18,0 x 29,0 x 24,0	20,00 €	208120	19,0 x 33,0 x 10,0	12,50 €
208019	19,0 x 30,0 x 25,0	22,00 €			
208020	20,0 x 30,0 x 25,0	22,00 €	208125	21,0 x 35,0 x 10,0	15,80 €
208022	22,0 x 34,0 x 25,0	28,00 €			
208024	24,0 x 35,0 x 27,0	30,00 €	208130	23,0 x 37,0 x 10,0	17,90 €
208025	25,0 x 37,0 x 27,0	32,00 €			
208028	28,0 x 42,0 x 29,0	39,00 €	208135	25,0 x 39,0 x 10,0	19,95 €
208030	30,0 x 43,0 x 30,0	43,00 €			
208032	32,0 x 45,0 x 30,0	45,00 €	208140	26,0 x 40,0 x 10,0	21,00 €
208033	33,0 x 48,0 x 39,0	45,00 €			
208035	35,0 x 50,0 x 39,0	60,00 €	208145	29,0 x 43,0 x 10,0	23,00 €
208038	38,0 x 54,0 x 39,0	71,00 €			
208040	40,0 x 56,0 x 39,0	80,00 €	208150	31,0 x 45,0 x 10,0	25,00 €
208039	40,0 x 56,0 x 42,0	80,00 €			
208042	42,0 x 59,0 x 39,2	88,00 €	208155	34,0 x 48,0 x 10,0	29,00 €
208043	43,0 x 60,0 x 41,0	94,00 €			
208044	43,0 x 59,0 x 47,0	94,00 €	208160	36,0 x 50,0 x 10,0	32,00 €
208045	45,0 x 64,0 x 41,0	104,00 €			
208046	45,0 x 64,0 x 47,0	104,00 €	208165	39,0 x 56,0 x 13,0	35,00 €
208047	48,0 x 68,0 x 41,2	120,00 €			
208048	48,0 x 68,0 x 47,2	120,00 €	208170	41,0 x 58,0 x 13,0	39,00 €
208050	50,0 x 69,0 x 45,2	131,00 €			
208051	50,0 x 69,0 x 46,2	131,00 €	201165	44,0 x 60,5 x 11,5	28,00 €
208053	53,0 x 71,0 x 56,2	135,00 €			
208054	55,0 x 74,0 x 47,2	138,00 €	208172	44,0 x 61,0 x 13,0	52,00 €
208055	55,0 x 74,0 x 56,2	138,00 €			
208058	58,0 x 76,0 x 56,2	145,00 €	201170	46,0 x 65,5 x 11,5	33,00 €
208060	60,0 x 80,0 x 56,2	182,00 €			
208063	63,0 x 83,0 x 56,2	197,00 €	208175	46,0 x 63,0 x 13,0	58,00 €
208065	65,0 x 87,0 x 51,2	216,00 €			
208066	65,0 x 87,0 x 66,2	216,00 €	201180	49,0 x 65,5 x 11,5	
208071	70,0 x 92,0 x 64,0	250,00 €			
208075	75,0 x 97,0 x 64,2	250,00 €	208180	49,0 x 66,0 x 13,0	61,00 €
208080	80,0 x 102 x 72,2	280,00 €			
			201180	51,0 x 72,5 x 11,5	42,00 €
			208185	51,0 x 70,0 x 14,0	
			208190	54,0 x 73,0 x 14,0	67,00 €
			201190	56,0 x 72,5 x 11,5	
			208195	56,0 x 75,0 x 14,0	69,00 €
			208200	59,0 x 78,0 x 14,0	74,00 €
			208205	61,0 x 80,0 x 14,0	97,00 €
			208208	64,0 x 83,0 x 14,0	101,00 €
			201200	66,0 x 84,5 x 11,5	69,00 €
			208210	66,0 x 85,0 x 14,0	105,00 €
			208215	71,0 x 92,0 x 16,0	147,00 €
			208215	76,0 x 97,0 x 16,0	155,00 €
			208215	81,0 x 105 x 18,0	139,00 €



Empanque em inox e nbr

Sede em carvão e nbr

Estes empanques também  
podem levar as  
sedes da página 14

P : 12 bar

V : 10 mt / s

T : 95 °

Água limpa doméstica

**Empanques FA em carvão nbr**

Código	Empanque Di x De x A	€/ Un	Código	Sede Di x De x A	€/ Un
202001	6,0 x 18,0 x 08,0	3,50 €	202099	09,0 x 22,0 x 04,0	1,30 €
202002	8,0 x 18,0 x 11,0	3,50 €	202100	13,0 x 26,0 x 05,5	1,30 €
202004	10,0 x 24,0 x 11,0	2,75 €	202105	13,0 x 26,0 x 08,0	1,30 €
202005	11,0 x 24,0 x 11,0	2,75 €	202110	14,0 x 26,0 x 05,5	1,30 €
202006	12,0 x 24,0 x 13,0	2,80 €	202115	14,0 x 26,0 x 08,0	1,30 €
202007	12,0 x 32,0 x 13,0	4,90 €	202118	15,0 x 26,0 x 08,0	4,10 €
202008	13,0 x 24,0 x 13,0	2,80 €	202120	16,0 x 28,5 x 07,5	2,20 €
202009	14,0 x 28,0 x 13,0	3,60 €			
202010	14,0 x 32,0 x 13,0	3,60 €	202125	16,5 x 29,5 x 08,0	2,20 €
202012	14,0 x 35,0 x 13,0	3,60 €			
202012	15,0 x 28,0 x 13,0	3,60 €	217112	17,0 x 30,0 x 08,0	2,00 €
202013	15,0 x 32,0 x 13,0	3,60 €	202130	14,5 x 35,0 x 08,0	2,50 €
202015	16,0 x 32,0 x 13,0	3,60 €	202135	17,0 x 38,0 x 08,0	3,00 €
202016	16,0 x 39,0 x 13,0	5,20 €			
202017	17,0 x 39,0 x 13,0	5,20 €			
202018	18,0 x 39,0 x 13,0	5,20 €	202140	21,0 X 42,0 X 8,0	3,10 €
202019	19,0 x 39,0 x 13,0	5,20 €			
202020	20,0 x 39,0 x 13,0	5,20 €			
202021	20,0 x 42,0 x 13,0	8,20 €			
202022	22,0 x 42,0 x 13,0	7,40 €	202145	26,0 x 45,0 x 10,0	3,50 €
202024	24,0 x 47,0 x 14,0	8,50 €			
202025	25,0 x 42,0 x 13,0	11,50 €	202150	27,0 x 50,0 x 10,0	4,00 €
202026	25,0 x 47,0 x 14,0	8,50 €			
202028	28,0 x 54,0 x 15,0	12,00 €			
202030	30,0 x 54,0 x 15,0	13,50 €	202155	33,0 x 57,0 x 10,0	6,00 €
202032	32,0 x 54,0 x 15,0	15,00 €			
202035	35,0 x 60,0 x 16,0	18,00 €	202160	38,0 x 63,0 x 10,0	11,00 €
202038	38,0 x 65,0 x 18,0	23,00 €			
202040	40,0 x 65,0 x 18,0	26,00 €	202165	42,0 x 68,0 x 12,0	18,00 €
202045	45,0 x 70,0 x 20,0	38,00 €			
202050	50,0 x 85,0 x 23,0	69,00 €	202170	47,0 x 72,0 x 12,0	56,00 €
202055	55,0 x 85,0 x 23,0	75,00 €			
202060	60,0 x 105,0 x 30,0	86,00 €	202180	56,0 x 88,0 x 12,0	81,00 €
202065	65,0 x 105,0 x 30,0	128,00 €			
202070	70,0 x 105,0 x 32,0	139,00 €	202185	66,0 x 110,0 x 15,0	86,00 €
			202190	71,0 x 110,0 x 15,0	91,00 €



**Empanque em carvão e nbr**

**Sede em porcelana e nbr**

**P : 6 bar**

**V : 12 mt / s**

**T : 95 °**

**Água limpa doméstica**

**Empanques FA em silício nbr**

Código	Empanque Di x De x A	€ / Un	Código	Sede Di x De x A	€ / Un
203012	12,0 x 24,0 x 13,0	16,00 €	203100	14,0 x 26,0 x 05,5	8,00 €
203013	13,0 x 24,0 x 13,0	16,00 €	203105	14,0 x 26,0 x 08,0	8,00 €
203014	14,0 x 32,0 x 13,0	26,00 €	203110	16,5 x 29,5 x 08,0	10,00 €
203015	15,0 x 32,0 x 13,0	26,00 €	203115	17,0 x 38,0 x 08,0	18,00 €
203016	16,0 x 32,0 x 13,0	26,00 €			
203017	17,0 x 39,0 x 13,0	34,00 €			
203018	18,0 x 39,0 x 13,0	35,00 €	203120	21,0 x 42,0 x 08,0	23,00 €
203019	19,0 x 39,0 x 13,0	36,00 €			
203020	20,0 x 39,0 x 13,0	38,00 €			
203021	20,0 x 42,0 x 13,0	50,00 €	203125	26,5 x 45,0 x 10,0	26,00 €
203022	22,0 x 42,0 x 13,0	53,00 €			
203024	24,0 x 47,0 x 14,0	55,00 €			
203023	25,0 x 42,0 x 14,0	53,00 €	203130	27,0 x 50,0 x 10,0	32,00 €
203025	25,0 x 47,0 x 14,0	55,00 €			
203028	28,0 x 54,0 x 15,0	58,00 €			
203030	30,0 x 54,0 x 15,0	60,00 €	203135	33,0 x 57,0 x 10,0	40,00 €
203032	32,0 x 54,0 x 15,0	63,00 €			
203035	35,0 x 60,0 x 16,0	99,00 €	203140	38,0 x 63,0 x 10,0	45,00 €
203038	38,0 x 65,0 x 18,0	108,00 €			
203040	40,0 x 65,0 x 18,0	116,00 €	203145	41,0 x 68,0 x 12,0	54,00 €
203045	45,0 x 70,0 x 20,0	124,00 €			
203050	50,0 x 85,0 x 23,0	135,00 €	203150	49,0 x 73,0 x 12,0	78,00 €
			203155	55,0 x 88,0 x 15,0	85,00 €



Movel em silício e nbr

Sede em silício e nbr

P : 6 bar

V : 12 mt / s

T : 95 ° nbr

Água com resíduos

**Empanques FA em tungstênio viton**

Código	Empanque Di x De x A	€ / Un	Código	Sede Di x De x A	€ / Un
203047	45,0 x 85,0 x 20,0	245,00 €	203152	49,0 x 73,0 x 12,0	189,00 €
203051	50,0 x 85,0 x 23,0	280,00 €	203160	58,5 x 88,0 x 15,0	228,00 €
203055	55,0 x 70,0 x 23,0	266,00 €	203165	66,5 x 110, x 15,0	326,00 €
203061	60,0 x 105, x 30,0	368,00 €			



**Empanques FG em carvão nbr**

Código	Empanque Di x De x A	€ / Un	Código	Sede Di x De x A	€ / Un
205012	12,0 x 22,0 x 08,3	11,80 €	205105	13,0 x 23,0 x 06,6	4,80 €
205013	12,0 x 25,0 x 15,0	11,90 €	205110	13,0 x 24,0 x 03,7	5,40 €
205014	14,0 x 28,0 x 17,0	13,00 €	205115	16,0 x 25,0 x 06,6	5,80 €
205015	15,0 x 28,0 x 17,0	13,00 €	205120	16,5 x 27,0 x 06,6	6,80 €
205016	16,0 x 28,0 x 17,0	13,00 €	205125	19,0 x 33,0 x 07,5	9,50 €
205017	17,0 x 32,0 x 19,5	17,00 €	205130	21,0 x 35,0 x 07,5	10,80 €
205018	18,0 x 32,0 x 19,5	18,00 €	205135	23,0 x 37,0 x 07,5	12,20 €
205019	19,0 x 36,0 x 21,5	19,50 €	205140	25,0 x 39,0 x 07,5	13,60 €
205020	20,0 x 36,0 x 21,5	20,30 €	205145	26,0 x 40,0 x 07,5	14,90 €
205022	22,0 x 36,0 x 21,5	22,80 €	205150	31,0 x 43,0 x 07,5	16,30 €
205024	24,0 x 41,0 x 22,5	24,00 €	205155	31,0 x 45,0 x 07,5	17,60 €
205025	25,0 x 41,0 x 23,0	26,00 €	205160	34,0 x 48,0 x 07,5	19,70 €
205028	28,0 x 49,0 x 26,5	29,00 €	205165	36,0 x 50,0 x 07,5	21,90 €
205030	30,0 x 49,0 x 26,5	32,00 €	205167	39,0 x 56,0 x 09,0	26,50 €
205032	32,0 x 53,5 x 27,5	36,00 €	205170	41,0 x 58,0 x 09,0	33,20 €
205035	35,0 x 57,0 x 28,5	38,00 €	205175	46,0 x 63,0 x 09,0	35,10 €
205038	38,0 x 59,0 x 30,0	40,50 €	205180	51,0 x 70,0 x 09,5	38,10 €
205040	40,0 x 62,0 x 30,0	43,00 €	205190	61,0 x 80,0 x 11,0	174,00 €
205045	45,0 x 66,0 x 30,0	49,00 €	205200	72,0 x 92,0 x 11,3	183,00 €
205050	50,0 x 74,0 x 30,5	65,00 €			
205060	60,0 x 88,5 x 38,0	116,00 €			
205070	70,0 x 99,5 x 40,0	165,00 €			



**Empanque em carvão e nbr**

**Sede em porcelana e nbr**

**P : 12 bar**

**V : 12 mt / s**

**T : 95 °**

**Água limpa doméstica**

**Empanques FGA em carvão nbr**

Código	Empanque Di x De x A	€ / Un	Código	Empanque Di x De x A	€ / Un
212014	14,0 x 28,0 x 28,4	15,50 €	212024	24,0 x 41,0 x 32,5	25,90 €
212016	16,0 x 28,0 x 28,4	16,50 €	212025	25,0 x 41,0 x 32,5	28,60 €
212018	18,0 x 32,0 x 30,0	19,80 €	212028	28,0 x 49,0 x 42,5	35,50 €
212020	20,0 x 36,5 x 30,1	22,50 €	212032	32,0 x 53,5 x 35,0	39,60 €
212021	22,0 x 36,5 x 25,0	25,10 €	212045	45,0 x 67,0 x 36,2	67,50 €
212022	22,0 x 36,5 x 30,0	25,10 €	212050	50,0 x 74,0 x 38,0	71,50 €
212023	22,0 x 36,0 x 37,5	26,50 €			



**Utilizam as sedes dos FG  
mais em cima nesta página**

**Empanques FG em silício nbr**

Código	Empanque Di x De x A	€ / Un	Código	Sede Di x De x A	€ / Un
206012	12,0 x 25,0 x 15,0	15,00 €	206101	13,0 x 23,0 x 06,6	8,50 €
206014	14,0 x 28,0 x 17,0	20,00 €	206103	16,0 x 25,0 x 06,6	9,00 €
206015	15,0 x 28,0 x 17,0	20,00 €	206104	16,0 x 26,0 x 05,0	9,50 €
206016	16,0 x 28,0 x 17,0	20,00 €	206105	16,5 x 27,0 x 06,6	9,50 €
206017	17,0 x 32,0 x 19,5	25,00 €	203110	16,5 x 29,5 x 08,0	10,00 €
206018	18,0 x 32,0 x 19,5	26,00 €	206110	19,0 x 33,0 x 07,5	18,60 €
206019	18,0 x 32,0 x 19,5	26,00 €	206115	21,0 x 35,0 x 07,5	18,60 €
206020	19,0 x 36,0 x 21,5	29,00 €	206120	23,0 x 37,0 x 07,5	20,80 €
206022	22,0 x 36,0 x 21,5	33,00 €	206125	25,0 x 39,0 x 07,5	22,10 €
206024	24,0 x 41,0 x 22,5	40,00 €	206130	26,0 x 40,0 x 07,5	23,80 €
206025	25,0 x 41,0 x 23,0	42,00 €	206135	31,0 x 43,0 x 07,5	28,00 €
206028	28,0 x 49,0 x 26,5	48,00 €	206140	31,0 x 45,0 x 07,5	31,80 €
206030	30,0 x 49,0 x 26,5	52,00 €	206142	33,0 x 48,0 x 07,5	32,60 €
206032	32,0 x 53,5 x 27,5	67,00 €	206145	34,0 x 48,0 x 07,5	33,90 €
206033	33,0 x 53,5 x 27,5	70,00 €	206150	36,0 x 50,0 x 07,5	40,00 €
206035	35,0 x 57,0 x 28,5	76,00 €	206155	39,0 x 56,0 x 09,0	43,00 €
206038	38,0 x 59,0 x 30,0	85,00 €	206160	41,0 x 58,0 x 09,0	47,00 €
206040	40,0 x 62,0 x 30,0	88,00 €	206163	41,0 x 61,0 x 09,0	50,00 €
206043	43,0 x 67,0 x 30,0	91,00 €	206165	46,0 x 63,0 x 09,0	52,00 €
206045	45,0 x 66,0 x 30,0	94,00 €	206166	49,0 x 66,0 x 09,0	57,00 €
206048	48,0 x 70,0 x 30,7	98,00 €	206170	51,0 x 70,0 x 09,5	62,00 €
206050	50,0 x 74,0 x 30,5	100,00 €	206171	56,0 x 75,0 x 11,0	57,00 €
206055	55,0 x 81,0 x 35,0	118,00 €	206173	61,0 x 80,0 x 11,0	86,00 €
206060	60,0 x 88,5 x 38,0	120,00 €	206175	66,0 x 85,0 x 11,0	110,00 €
206065	65,0 x 93,5 x 40,0	159,00 €	206180	72,0 x 92,0 x 11,3	128,00 €
206070	70,0 x 99,5 x 40,0	220,00 €	206185	76,0 x 97,0 x 11,3	148,00 €
206075	75,0 x 107,0 x 40,0	289,00 €			



Movel em silício e nbr

Sede em silício e nbr

P : 6 bar

V : 12 mt / s

T : 95 ° nbr

Água com resíduos

**Empanques FGA em silício nbr**

Código	Empanque Di x De x A	€ / Un	Código	Empanque Di x De x A	€ / Un
213012	12,0 x 25,0 x 26,0	18,50 €	213028	28,0 x 49,0 x 35,0	52,80 €
213014	14,0 x 28,0 x 28,4	22,00 €	213029	30,0 x 49,0 x 32,5	58,10 €
213016	16,0 x 28,0 x 28,4	22,00 €	213030	30,0 x 49,0 x 35,0	58,10 €
213018	18,0 x 32,0 x 30,0	28,60 €	213032	32,0 x 53,5 x 35,0	69,50 €
213020	20,0 x 36,0 x 30,0	33,90 €	213033	33,0 x 53,5 x 35,0	71,50 €
213022	22,0 x 36,0 x 30,0	37,30 €	213038	38,0 x 58,5 x 36,2	76,50 €
213026	25,0 x 41,0 x 25,5	46,20 €	213045	45,0 x 66,0 x 36,0	103,40 €
213025	25,0 x 41,0 x 32,5	46,20 €	213048	48,0 x 70,5 x 51,0	110,20 €



Utilizam as sedes dos FG  
mais em cima nesta página

**Empanques FG em silício viton**

Código	Empanque Di x De x A	€ / Un	Código	Sede Di x De x A	€ / Un
207012	12,0 x 25,0 x 15,0	16,00 €	207100	13,0 x 23,0 x 06,6	9,00 €
207014	14,0 x 28,0 x 17,0	22,00 €	207101	16,0 x 26,0 x 06,0	10,00 €
207015	15,0 x 28,0 x 17,0	22,00 €	207102	16,5 x 27,0 x 06,6	10,00 €
207016	16,0 x 28,0 x 17,0	22,00 €	207105	19,0 x 33,0 x 07,5	14,50 €
207017	17,0 x 32,0 x 19,5	25,00 €	207110	21,0 x 35,0 x 07,5	20,80 €
207019	19,0 x 36,0 x 21,5	31,90 €	207115	23,0 x 37,0 x 07,5	22,00 €
207020	20,0 x 36,0 x 21,5	35,20 €	207120	25,0 x 39,0 x 07,5	25,80 €
207022	22,0 x 36,0 x 21,5	36,30 €	207125	26,0 x 40,0 x 07,5	26,00 €
207024	24,0 x 41,0 x 22,5	44,00 €	207130	31,0 x 43,0 x 07,5	28,00 €
207025	25,0 x 41,0 x 23,0	46,20 €	207135	31,0 x 45,0 x 07,5	30,00 €
207028	28,0 x 49,0 x 26,5	52,80 €	207140	34,0 x 48,0 x 07,5	35,00 €
207030	30,0 x 49,0 x 26,5	57,20 €	207145	36,0 x 50,0 x 07,5	44,00 €
207033	33,0 x 53,5 x 27,5	77,00 €	207155	39,0 x 56,0 x 09,0	47,30 €
207035	35,0 x 57,0 x 28,5	84,00 €	207160	41,0 x 58,0 x 09,0	51,70 €
207038	38,0 x 59,0 x 30,0	93,50 €	207165	44,0 x 61,0 x 09,0	55,00 €
207040	40,0 x 62,0 x 30,0	96,80 €	207170	46,0 x 63,0 x 09,0	57,20 €
207043	43,0 x 67,0 x 30,0	100,10 €	207175	49,0 x 66,0 x 09,0	62,70 €
207045	45,0 x 66,0 x 30,0	103,40 €	207180	51,0 x 70,0 x 09,5	68,20 €
207048	48,0 x 70,0 x 30,7	107,80 €	207184	56,0 x 75,0 x 11,0	71,50 €
207051	50,0 x 74,0 x 30,5	116,50 €	207190	61,0 x 80,0 x 11,0	86,00 €
207055	55,0 x 81,0 x 35,0	156,00 €	207195	66,0 x 85,0 x 11,0	110,00 €
207060	60,0 x 88,5 x 38,0	184,00 €	207200	72,0 x 92,0 x 11,3	148,00 €
207065	65,0 x 93,5 x 40,0	240,00 €	207235	101,0 x 125,0 x 14,0	187,00 €
206070	70,0 x 99,5 x 40,0	358,00 €			
207098	100,0 x 137,0 x 47,0	476,00 €			



Movel em silício viton

Sede em silício viton

P : 12 bar

V : 12 mt / s

T : 120 ° viton

Água com resíduos

**Empanques FGA em silício viton**

Código	Empanque Di x De x A	€ / Un	Código	Empanque Di x De x A	€ / Un
214012	12,0 x 25,0 x 26,0	19,20 €	214027	28,0 x 49,0 x 33,0	58,10 €
214014	14,0 x 28,0 x 28,4	24,20 €	214028	28,0 x 49,0 x 35,0	58,10 €
214016	16,0 x 28,0 x 28,4	24,20 €	214428	28,0 x 49,0 x 42,5	58,10 €
214017	16,0 x 28,0 x 33,4	29,50 €	214030	30,0 x 49,0 x 35,0	63,90 €
214018	18,0 x 32,0 x 30,0	31,50 €	214032	32,0 x 53,5 x 35,0	78,50 €
214019A	19,0 x 36,0 x 25,5	35,10 €	214033	33,0 x 53,5 x 35,0	84,70 €
214019	19,0 x 36,0 x 30,0	35,10 €	214038	38,0 x 58,0 x 46,2	92,50 €
214020A	20,0 x 36,0 x 25,5	36,96 €	214040	40,0 x 62,0 x 36,0	98,00 €
214020	20,0 x 36,0 x 30,0	38,70 €	214045	45,0 x 68,0 x 36,0	106,50 €
214022	22,0 x 36,0 x 30,0	41,00 €	214048	48,0 x 70,0 x 51,2	118,50 €
214024	24,0 x 41,0 x 32,5	48,40 €	214050	50,0 x 74,0 x 38,0	121,00 €
214025	25,0 x 41,0 x 32,5	50,80 €	214085	85,0 x 119,5 x 46,2	398,00 €



Utilizam as sedes dos FG  
mais em cima nesta página

IVA a incluir à taxa em vigor

Esta tabela pode ser alterada sem aviso prévio

### Empanques FLC em carvão viton

Código	Empanque Di x De x A	€/ Un	Código	Sede Di x De x A	€/ Un
216320	20,0 x 34,0 x 20,0	20,50 €	216908	21,0 x 35,0 x 6,0	10,80 €
216420	20,0 x 34,0 x 31,5	20,50 €	216909	23,0 x 37,0 x 6,0	11,10 €
216322	22,0 x 36,0 x 20,0	24,50 €	216911	25,0 x 39,0 x 6,0	13,40 €
216422	22,0 x 36,0 x 31,5	24,50 €	216910	26,0 x 40,0 x 6,0	14,90 €
216324	24,0 x 36,0 x 20,0	25,30 €	216912	30,0 x 43,0 x 6,0	15,60 €
216325	25,0 x 39,0 x 20,0	27,50 €	216913	31,0 x 45,0 x 6,0	16,80 €
216425	25,0 x 39,0 x 34,0	27,50 €			
216525	25,0 x 39,0 x 44,0	27,50 €			
216328	28,0 x 42,0 x 26,0	30,10 €			
216428	28,0 x 42,0 x 36,5	31,10 €			
216330	30,0 x 44,0 x 26,0	32,70 €			
216430	30,0 x 44,0 x 35,5	32,70 €			



Empanque em carvão e viton

Sede em porcelana e viton

P : 12 bar

V : 12 mt / s

T : 120 °

Água limpa doméstica

### Empanques FLC em silício viton

Código	Empanque Di x De x A	€/ Un	Código	Sede Di x De x A	€/ Un
216020	20,0 x 34,0 x 20,0	36,20 €	216957	21,0 x 35,0 x 6,0	22,50 €
216720	20,0 x 34,0 x 31,5	36,70 €	216958	23,0 x 37,0 x 6,0	24,30 €
216622	22,0 x 36,0 x 20,0	37,10 €	216959	25,0 x 39,0 x 6,0	27,60 €
216722	22,0 x 36,0 x 31,5	37,60 €	216960	26,0 x 40,0 x 6,0	28,60 €
216624	24,0 x 36,0 x 20,0	38,90 €	216961	30,0 x 43,0 x 6,0	29,80 €
216625	25,0 x 39,0 x 20,0	41,50 €	216962	31,0 x 45,0 x 7,0	32,60 €
216725	25,0 x 39,0 x 34,0	42,00 €	216964	34,0 x 48,0 x 7,0	35,00 €
216825	25,0 x 39,0 x 44,0	42,50 €	216965	36,0 x 50,0 x 8,0	36,20 €
216628	28,0 x 42,0 x 26,0	44,60 €	216968	44,0 x 61,0 x 8,0	55,00 €
216728	28,0 x 42,0 x 36,5	45,10 €			
216630	30,0 x 44,0 x 26,0	52,00 €			
216730	30,0 x 44,0 x 35,5	52,60 €			
216732	32,0 x 46,0 x 35,5	79,00 €			
216735	35,0 x 49,0 x 34,5	86,00 €			
216743	43,0 x 59,0 x 37,0	102,00 €			



Movel em silício viton

Sede em silício viton

P : 12 bar

V : 12 mt / s

T : 120 ° viton

Água com resíduos

**Empanques DE ( mm ) em carvão nbr**

Código	Empanque Di x De x A	€ / Un	Código	Sede Di x De x A	€ / Un
217012	12,0 x 22,0 x 26,0	6,50 €	217100	13,0 x 23,0 x 08,0	3,40 €
217014	14,0 x 24,0 x 26,7	8,20 €	217105	15,0 x 25,0 x 08,0	4,10 €
217015	15,0 x 26,7 x 25,6	12,50 €	217110	17,0 x 27,0 x 08,0	5,20 €
217016	16,0 x 26,7 x 26,7	12,50 €	217115	19,0 x 33,0 x 10,0	6,40 €
217018	18,0 x 30,4 x 27,5	13,55 €	211110	20,5 x 35,0 x 10,0	4,30 €
217020	20,0 x 32,0 x 27,5	15,30 €	217125	23,0 x 37,0 x 10,0	7,30 €
217022	22,0 x 33,6 x 27,5	17,05 €	217130	25,0 x 39,0 x 10,0	8,30 €
217024	24,0 x 38,5 x 30,0	18,85 €	217135	26,0 x 40,0 x 10,0	9,80 €
217025	25,0 x 38,5 x 30,0	22,50 €	217140	29,0 x 43,0 x 10,0	12,30 €
217028	28,0 x 42,5 x 32,5	26,95 €	217145	31,0 x 45,0 x 10,0	14,00 €
217030	30,0 x 44,0 x 32,5	27,90 €	217150	33,0 x 48,0 x 10,0	15,00 €
217032	32,0 x 46,5 x 32,5	34,35 €	217155	34,0 x 48,0 x 10,0	16,00 €
217033	33,0 x 49,0 x 32,5	35,40 €	217160	36,0 x 50,0 x 10,0	17,00 €
217035	35,0 x 49,5 x 32,0	37,50 €	217165	39,0 x 56,0 x 11,0	19,00 €
217038	38,0 x 55,0 x 34,0	44,75 €	217170	41,0 x 58,0 x 11,0	20,00 €
217040	40,0 x 56,5 x 34,5	49,80 €	217175	44,0 x 61,0 x 11,0	22,00 €
217043	43,0 x 62,5 x 34,0	56,20 €	217180	46,0 x 63,0 x 10,5	25,00 €
217045	45,0 x 62,5 x 34,5	60,40 €	217190	51,0 x 70,0 x 11,0	35,00 €
217050	50,0 x 66,0 x 36,5	67,85 €	217200	56,0 x 75,0 x 12,0	48,00 €
217055	55,0 x 71,0 x 35,5	74,20 €	217210	66,0 x 85,0 x 13,0	57,00 €
217065	65,0 x 85,0 x 39,5	94,35 €	217220	71,0 x 92,0 x 15,3	63,50 €
217070	70,0 x 90,0 x 44,9	99,60 €			

**Empanque em carvão e nbr**

**Sede em porcelana e nbr**

**P : 8 bar**

**V : 10 mt / s**

**T : 95 °**

**Água limpa doméstica**



**Empanques PE ( polgadas ) em carvão nbr**

218016	15,8 x 27,0 x 26,0 - 5/8"	10,00 €	218105	17,0 x 30,9 x 10,0	6,10 €
218019	19,1 x 31,0 x 26,0 - 3/4"	11,80 €	218107	20,0 x 34,1 x 10,0	7,20 €
218022	22,2 x 34,0 x 26,0 - 7/8"	14,90 €	218109	26,0 x 40,5 x 10,0	10,00 €
218025	25,4 x 40,0 x 26,0 - 1"	20,90 €	218115	30,0 x 44,4 x 09,1	15,40 €
218028	28,6 x 45,0 x 33,0 - 1"1/8	23,60 €	218116	33,0 x 47,6 x 12,0	15,00 €
218031	31,7 x 47,0 x 33,0 - 1"1/4	33,00 €	218117	33,0 x 50,8 x 12,0	18,00 €
218034	34,9 x 52,0 x 33,0 - 1"3/8	34,80 €	218120	37,0 x 50,8 x 11,1	21,20 €
218038	38,1 x 54,0 x 33,0 - 1"1/2	42,50 €	218122	39,0 x 53,9 x 12,0	21,00 €
218041	41,3 x 63,5 x 35,0 - 1" 5/8	47,00 €	218125	40,0 x 54,0 x 11,1	22,60 €
218044	44,4 x 62,0 x 39,0 - 1"3/4	50,50 €	218127	40,0 x 57,1 x 12,0	23,00 €
218047	47,6 x 69,9 x 38,1 - 1"7/8	53,60 €	218130	43,0 x 60,3 x 12,7	23,10 €
218050	50,8 x 70,0 x 41,0 - 2"	65,00 €	218135	47,0 x 63,5 x 12,7	23,80 €
			218140	48,0 x 66,7 x 12,7	23,80 €
			218145	53,0 x 69,8 x 13,0	25,00 €



**Empanque em carvão e nbr**

**Sede em porcelana e nbr**

**P : 8 bar**

**V : 10 mt / s**

**T : 95 °**

**Água limpa doméstica**

IVA a incluir à taxa em vigor

Esta tabela pode ser alterada sem aviso prévio

**Empanques DES ( mm ) em silício viton**

Código	Empanque Di x De x A	€ / Un	Código	Sede Di x De x A	€ / Un
219012	12,0 x 21,7 x 24,1	18,40 €	219100	13,0 x 23,0 x 08,5	9,20 €
219014	14,0 x 24,5 x 26,7	19,30 €	219105	15,0 x 25,0 x 08,5	10,30 €
219016	16,0 x 26,0 x 27,0	20,00 €	219110	17,0 x 27,0 x 08,0	11,10 €
219018	18,0 x 32,0 x 27,5	24,00 €	219115	19,0 x 33,0 x 10,0	15,00 €
219019	19,0 x 34,0 x 27,5	26,20 €	219120	21,0 x 35,0 x 10,0	20,00 €
219020	20,0 x 34,0 x 27,5	26,20 €	219125	23,0 x 37,0 x 10,0	22,00 €
219022	22,0 x 36,0 x 27,5	30,00 €	219130	25,0 x 39,0 x 10,0	25,00 €
219024	24,0 x 38,5 x 30,0	32,00 €	219135	26,0 x 40,0 x 10,0	26,00 €
219025	25,0 x 39,0 x 30,0	35,00 €	219140	29,0 x 43,0 x 10,0	28,00 €
219028	28,0 x 42,5 x 32,5	38,00 €	219145	31,0 x 45,0 x 10,0	30,00 €
219030	30,0 x 44,0 x 32,5	42,00 €	219150	33,0 x 48,0 x 10,0	35,00 €
219032	32,0 x 46,5 x 32,5	44,00 €	219155	34,0 x 48,0 x 10,0	37,00 €
219033	33,0 x 49,0 x 32,5	46,00 €	219160	36,0 x 50,0 x 10,0	40,00 €
219035	35,0 x 49,5 x 32,0	48,00 €	219165	39,0 x 56,0 x 11,0	47,00 €
219038	38,0 x 55,0 x 34,0	62,00 €	219170	41,0 x 58,0 x 10,5	53,00 €
219040	40,0 x 56,5 x 34,5	68,00 €	219180	46,0 x 63,0 x 10,5	60,00 €
219045	45,0 x 62,5 x 34,5	73,00 €	219185	49,0 x 66,0 x 10,5	64,00 €
219048	48,0 x 64,0 x 34,5	75,50 €	219190	51,0 x 70,0 x 11,0	68,00 €
219050	50,0 x 66,0 x 36,5	78,00 €	219195	54,0 x 73,0 x 11,5	72,00 €
219053	53,0 x 69,5 x 36,0	83,50 €	219200	56,0 x 75,0 x 12,0	76,00 €
219055	55,0 x 71,0 x 35,5	89,00 €	219205	61,0 x 80,0 x 12,0	84,00 €
219060	60,0 x 80,0 x 40,5	103,00 €	219210	66,0 x 85,0 x 13,0	90,00 €
219065	65,0 x 85,0 x 39,5	114,70 €	219220	71,0 x 92,0 x 15,3	96,00 €
219070	70,0 x 90,0 x 44,9	124,00 €			

**Movel em silício viton**
**Sede em silício viton**
**P : 8 bar**
**V : 10 mt / s**
**T : 120 ° viton**
**Água com resíduos**

**Empanques PES ( polgadas ) em silício viton**

Código	Empanque Di x De x A	€ / Un	Código	Sede Di x De x A	€ / Un
225012	12,7 x 24,0 x 25,0 - 1/2"	16,00 €	225100	13,5 x 27,7 x 08,0	11,50 €
225015	15,8 x 27,0 x 26,0 - 5/8"	19,00 €	225105	17,0 x 30,9 x 10,0	14,90 €
225019	19,1 x 31,0 x 26,0 - 3/4"	22,00 €	225110	20,0 x 34,1 x 10,0	18,40 €
225022	22,2 x 34,0 x 26,0 - 7/8"	26,00 €	225115	24,0 x 37,3 x 10,0	22,50 €
225025	25,4 x 40,0 x 26,0 - 1"	34,00 €	225120	26,0 x 40,5 x 10,0	34,00 €
225028	28,6 x 45,0 x 33,0 - 1 1/8"	42,00 €	225125	33,0 x 47,6 x 10,0	39,40 €
225031	31,7 x 47,0 x 33,0 - 1 1/4"	55,00 €	225130	33,0 x 50,8 x 12,0	42,00 €
225034	34,9 x 52,0 x 33,0 - 1 3/8"	59,00 €	225135	37,0 x 53,9 x 12,0	46,00 €
225038	38,1 x 54,0 x 33,0 - 1 1/2"	64,00 €	225140	40,0 x 57,1 x 12,0	51,30 €
225044	44,4 x 62,0 x 39,0 - 1 3/4"	72,00 €	225145	47,0 x 63,5 x 13,0	56,20 €
225050	50,8 x 70,0 x 41,0 - 2"	86,00 €	225150	53,0 x 69,8 x 13,0	60,00 €

**Movel em silício viton**
**Sede em silício viton**
**P : 8 bar**
**V : 10 mt / s**
**T : 120 ° viton**
**Água com resíduos**

IVA a incluir à taxa em vigor

Esta tabela pode ser alterada sem aviso prévio

**Empanques SILEX em silício viton**

Código	Empanque Di x De x A	€ / Un	Código	Sede Di x De x A	€ / Un
223010	10,0 x 19,5 x 15,2	18,00 €	223099	11,0 x 18,1 x 05,5	10,00 €
223012	12,0 x 22,8 x 18,2	20,00 €	223100	12,8 x 20,6 x 05,5	11,90 €
223013	13,0 x 25,0 x 22,2	22,00 €	223103	13,0 x 23,0 x 08,6	12,00 €
223014	14,0 x 25,0 x 22,2	24,00 €	223105	15,0 x 23,1 x 06,0	17,53 €
223015	15,0 x 28,6 x 22,2	28,00 €	223109	15,0 x 25,0 x 07,0	17,80 €
223016	16,0 x 28,6 x 23,2	30,00 €	223110	17,0 x 26,9 x 07,0	14,00 €
223017	17,0 x 28,6 x 23,2	32,00 €	223112	17,0 x 27,0 x 07,0	18,00 €
223018	18,0 x 32,7 x 24,2	35,00 €	223111	18,0 x 26,9 x 07,0	18,00 €
223019	19,0 x 32,7 x 25,2	38,00 €	223122	19,0 x 33,0 x 10,0	24,80 €
223020	20,0 x 32,7 x 25,2	40,00 €	223120	20,7 x 30,9 x 08,0	24,00 €
223022	22,0 x 37,4 x 25,2	43,00 €	223125	21,0 x 35,0 x 10,0	24,00 €
223024	24,0 x 37,4 x 27,2	45,00 €	223130	23,0 x 35,4 x 08,0	27,00 €
223025	25,0 x 40,0 x 27,2	48,00 €	223135	23,0 x 37,0 x 10,0	29,00 €
223028	28,0 x 45,5 x 29,2	51,00 €	223132	25,0 x 35,4 x 08,0	28,00 €
223030	30,0 x 45,5 x 30,2	54,00 €	223153	25,0 x 39,0 x 10,0	29,50 €
223032	32,0 x 45,5 x 30,2	57,00 €	223150	26,0 x 38,2 x 08,5	31,00 €
223033	33,0 x 50,0 x 39,2	60,00 €	223160	29,0 x 43,0 x 10,0	33,00 €
223035	35,0 x 50,0 x 39,2	65,00 €	223165	31,0 x 43,3 x 09,0	34,00 €
223038	38,0 x 58,0 x 39,2	70,00 €	223175	33,0 x 43,3 x 09,0	36,00 €
223040	40,0 x 56,0 x 39,2	79,00 €	223181	34,0 x 48,0 x 10,0	40,00 €
			223185	36,0 x 53,5 x 11,5	46,00 €
			223190	39,0 x 56,0 x 13,0	48,00 €
			223200	41,0 x 60,5 x 11,5	52,00 €


**Movel em silício viton**
**Sede em silício viton**
**P : 10 bar**
**V : 20 mt / s**
**T : 120 ° viton**
**Água com resíduos**
**Empanques EUREX em silício viton**

Código	Empanque Di x De x A	€ / Un	Código	Sede Di x De x A	€ / Un
220016	16,0 x 26,0 x 23,2	36,50 €	223112	17,0 x 27,0 x 07,0	18,00 €
220025	25,0 x 37,0 x 27,2	63,00 €	223155	26,0 x 40,0 x 10,0	32,00 €
220030	30,0 x 43,0 x 30,2	69,00 €	223170	31,0 x 45,0 x 10,0	35,00 €
220035	35,0 x 49,0 x 39,2	71,50 €	223182	36,0 x 50,0 x 10,0	43,00 €
220040	40,0 x 56,0 x 42,2	86,90 €	223195	41,0 x 58,0 x 13,0	50,00 €
220048	48,0 x 68,0 x 47,2	86,90 €	223220	49,0 x 66,0 x 11,5	64,00 €
220055	55,0 x 74,0 x 56,2	142,00 €	223232	56,0 x 75,0 x 14,0	69,00 €
220060	60,0 x 79,0 x 56,2	258,00 €	228160	61,0 x 80,0 x 14,0	82,50 €


**Tipo Europa em silício**

IVA a incluir à taxa em vigor

Esta tabela pode ser alterada sem aviso prévio

### Empanques EUROPA em tungstênio ( widia ) viton

Código	Empanque Di x De x A	€ / Un	Código	Sede Di x De x A	€ / Un
209014	14,0 x 24,0 x 22,0	67,85 €	209100	15,0 x 23,1 x 06,0	44,50 €
209015	15,0 x 26,0 x 22,0	67,85 €	209115	16,0 x 26,9 x 07,0	44,50 €
209016	16,0 x 27,0 x 23,0	67,85 €	209120	17,0 x 26,9 x 07,0	44,50 €
209018	18,0 x 32,0 x 24,0	72,10 €	209125	18,0 x 26,9 x 07,0	45,60 €
209020	20,0 x 34,0 x 25,0	85,85 €	209122	17,0 x 27,0 x 08,0	46,70 €
209022	22,0 x 36,0 x 25,0	90,10 €	209130	19,0 x 30,9 x 08,0	49,80 €
209024	24,0 x 38,0 x 27,0	98,60 €	209136	19,0 x 33,0 x 10,0	51,95 €
209025	25,0 x 39,0 x 27,0	112,50 €	209135	21,0 x 30,9 x 08,0	55,10 €
209028	28,0 x 43,0 x 29,0	138,90 €	209137	21,0 x 35,0 x 10,0	57,25 €
209030	30,0 x 44,0 x 30,0	141,00 €	209140	23,0 x 35,4 x 08,0	56,20 €
209032	32,0 x 45,0 x 30,0	143,10 €	209147	23,0 x 37,0 x 10,0	64,70 €
209035	35,0 x 52,0 x 39,0	167,50 €	209145	25,0 x 35,4 x 08,0	70,00 €
209038	38,0 x 54,0 x 39,0	191,90 €	209335	25,0 x 39,0 x 10,0	81,60 €
209040	40,0 x 56,0 x 39,0	224,80 €	209150	26,0 x 38,2 x 08,5	74,20 €
			209152	26,0 x 40,0 x 10,0	82,70 €
			209153	29,0 x 43,0 x 10,0	93,30 €
			209155	29,0 x 43,3 x 09,0	86,95 €
			209160	31,0 x 43,3 x 09,0	102,85 €
			209350	31,0 x 45,0 x 10,0	98,60 €
			209165	33,0 x 48,0 x 10,0	104,95 €
			209170	36,0 x 50,0 x 10,0	117,70 €
			209175	36,0 x 53,5 x 11,5	115,55 €
			209180	39,0 x 60,5 x 11,5	130,40 €
			209185	41,0 x 60,5 x 11,5	157,95 €



Movel em tungstênio e viton

Sede em tungstênio e viton oring

P : 10 bar

V : 20 mt / s

T : 120 ° viton

Água com resíduos

### Empanques Lowara

Código	Empanque Di x De x A	€ / Un	Código	Sede Di x De x A	€ / Un
222014	14,0 x 31,0 x 14,0	9,70 €	202125	17,0 x 29,5 x 08,0	2,20 €
222015	15,0 x 31,0 x 14,0	9,70 €	202125	17,0 x 29,5 x 08,0	2,20 €
222015A	16,0 x 31,0 x 14,0 silício	18,00 €	203110	17,0 x 29,5 x 08,0 silício	10,00 €
222016	16,0 x 31,0 x 14,0	9,70 €	202125	17,0 x 29,5 x 08,0	2,20 €
222114	SX 14 14 x 24,0 x 16,0 porcelana nbr		15,0 x 23,1 x 06,0 carvão nbr		17,80 €
222212	SV 12 12 x 23,0 x 25,5 silício viton		13,0 x 23,0 x 07,0 silício viton		42,50 €
222216	SV 16 16 x 28,5 x 34,0 silício viton		17,0 x 27,0 x 07,0 silício viton		45,50 €
222116	LX 16 16 x 29,5 x 34,0 silício viton		17,0 x 27,0 x 07,0 silício viton		148,20 €
222122	LX 22 22 x 35,4 x 35,0 silício viton		23,0 x 37,0 x 10,0 silício viton		199,00 €



LX22

IVA a incluir à taxa em vigor

Esta tabela pode ser alterada sem aviso prévio

**Empanques FDR duplos com 2 sedes**

Código	Empanque Di x De x A	Sede Di x De x A	Sede Di x De x A	€ / Un
221114	14,0 x 26,0 x 27,0 sil. carv.	17,0 x 28,0 x 6,0 porc.	17,0 x 28,0 x 6,0 silício	52,00 €
221014	14,0 x 26,0 x 27,0 sil. carv.	17,0 x 30,0 x 4,0 porc.	17,0 x 30,0 x 4,0 silício	52,00 €
221015	15,0 x 26,0 x 27,0 sil. carv.	17,0 x 30,0 x 4,0 porc.	17,0 x 30,0 x 4,0 silício	54,00 €
221016	16,0 x 26,0 x 27,0 sil. carv.	17,0 x 30,0 x 4,0 porc.	17,0 x 30,0 x 4,0 silício	56,00 €
221020	20,0 x 32,0 x 35,0 sil. sil.	21,0 x 44,0 x 7,0 sil.	21,0 x 38,0 x 7,0 silício	106,00 €
221025	25,0 x 39,0 x 37,0 sil. sil.	26,0 x 50,0 x 7,0 sil.	26,0 x 44,0 x 7,0 silício	132,00 €
221029	Ebara 30 mm sil. sil.	31,0 x 44,0 x 7,0 sil.	31,0 x 57,0 x 7,0 silício	132,00 €
221030	Ebara 30 / 35 mm sil. sil.	31,0 x 50,0 x 0,0 sil.	36,0 x 47,0 x 0,0 silício	197,70 €
221040	40,0 x 58,0 x 44,0 sil. sil.	41,0 x 70,0 x 11,0 sil.	41,0 x 64,0 x 9,0 silício	330,00 €
221041	Tsurumi 40 mm silício silício	41,0 x 68,1 x 0,0 sil.	41,0 x 69,7 x 0,0 silício	346,00 €



**Sedes ESPECIAIS em L e em oring e Sedes ANTI ROTAÇÃO (AR)**

Código	Sede Di x De x A	€ / Un	Código	Sede Di x De x A	€ / Un
228113	13 x 23,0 x 08,6 sil vit or ar	19,10 €	228036	36 x 52,0 x 11,0 sil vit or	46,65 €
228015	15 x 23,1 x 06,6 sil vit or	16,95 €	228039	39 x 55,0 x 10,3 sil vit or	50,90 €
228115	15 x 25,0 x 08,6 sil vit or ar	21,75 €	228138	39 x 56,0 x 11,0 sil vit or ar	54,10 €
228117	17 x 27,0 x 08,6 sil vit or ar	24,30 €	223192	41 x 58,0 x 09,0 sil vit or	50,00 €
228017	17 x 28,0 x 07,5 sil vit or	24,40 €	228141	41 x 58,0 x 13,0 sil vit or ar	57,25 €
205122	17 x 30,0 x 04,0 porc L	7,65 €	223205	44 x 60,5 x 11,5 sil vit or	58,30 €
207104	17 x 30,0 x 04,0 sil vit L	14,85 €	228145	46 x 63,0 x 11,0 sil vit or ar	62,55 €
228019	19 x 30,0 x 08,0 sil vit or	31,30 €	228045	46 x 64,0 x 11,6 sil vit or	60,45 €
228021	21 x 35,0 x 07,5 sil vit or	27,05 €	223208	46 x 65,5 x 11,5 sil vit or	67,85 €
228121	21 x 35,0 x 10,0 sil vit or ar	29,60 €	228148	49 x 66,0 x 11,0 sil vit or ar	66,80 €
219122	21 x 36,0 x 10,5 sil vit L	22,30 €	223220	49 x 66,0 x 11,5 sil vit or	67,85 €
228122	23 x 37,0 x 10,0 sil vit or ar	30,75 €	228048	49 x 68,4 x 11,6 sil vit or	63,60 €
225117	26 x 38,0 x 07,5 sil vit L	35,50 €	228049	49 x 68,4 x 14,3 sil vit or	60,00 €
228124	25 x 39,0 x 10,0 sil vit or ar	36,35 €	228051	51 x 69,3 x 11,6 sil vit or	68,90 €
229125	26 x 40,0 x 06,0 sil vit L	36,05 €	228150	51 x 70,0 x 13,0 sil vit or ar	71,05 €
228125	26 x 40,0 x 10,0 sil vit or ar	37,10 €	228156	56 x 75,0 x 13,0 sil vit or ar	76,85 €
228029	29 x 42,0 x 09,0 sil vit or	40,30 €	228056	56 x 75,4 x 13,3 sil vit or	75,90 €
228030	29 x 43,0 x 07,0 sil vit or	38,00 €	228160	61 x 80,0 x 14,0 sil vit or ar	87,45 €
228128	29 x 43,0 x 10,0 sil vit or ar	41,35 €	228061	61 x 80,4 x 13,3 sil vit or	88,00 €
223168	31 x 45,0 x 07,5 sil vit or	35,00 €	228166	66 x 85,0 x 13,0 sil vit or ar	101,75 €
228130	31 x 45,0 x 10,0 sil vit or ar	44,55 €	223245	66 x 85,4 x 13,0 sil vit or	94,80 €
228133	33 x 48,0 x 10,0 sil vit or ar	49,30 €	228071	71 x 92,0 x 13,0 sil vit or	107,70 €
223178	34 x 48,0 x 7,0 sil vit or	40,00 €	228170	71 x 92,0 x 16,0 sil vit or ar	110,25 €
228135	35 x 50,0 x 10,0 sil vit or ar	50,90 €	228076	76 x 99,0 x 14,0 sil vit or	114,05 €



**sedes em L**



**sedes com oring**



**sedes anti rotação**

IVA a incluir à taxa em vigor

Esta tabela pode ser alterada sem aviso prévio

## Empanques para ABS

Código	Modelo	Empanque Di x De x A	Sede Di x De x A	€/ Un
232110	ABS 45 superior	45,0 x 63,0 x 15,6	46,0 x 65,0 x 14,5	68,00 €
232120	ABS 48 superior	48,0 x 65,0 x 15,6	49,0 x 67,0 x 14,5	81,40 €
232130	ABS 65 superior	65,0 x 79,0 x 17,8	66,0 x 86,0 x 15,3	280,20 €
232140	ABS 80 superior	80,0 x 100,0 x 19,5	81,0 x 104,0 x 16,3	133,90 €
232150	ABS 90 superior	90,0 x 108,0 x 19,5	91,0 x 114,0 x 16,3	221,50 €
232160	ABS 100 superior	100,0 x 120,0 x 19,5	102,0 x 123,3 x 16,3	280,20 €
<b>Empanque em aço e inox / Sede em carvão e nbr de oring</b>				
232190	ABS 50 superior FPB	50,0 x 66,0 x 19,0	51,0 x 72,0 x 10,0	265,00 €
232210	ABS 65 superior FPB	65,0 x 86,5 x 27,0	66,0 x 85,0 x 13,0	
<b>Empanque em silício e nbr / Sede tipo L em porcelana e nbr</b>				
232025	ABS 25 inferior FG2	25,0 x 41,0 x 23,0	26,0 x 40,5 x 08,5	66,00 €
232030	ABS 30 inferior FG2	30,0 x 47,0 x 24,0	31,0 x 50,8 x 09,1	79,00 €
232040	ABS 40 inferior FG2	40,0 x 60,0 x 30,0	41,0 x 58,0 x 09,0	103,00 €
232045	ABS 45 inferior FG2	45,0 x 65,0 x 32,0	46,0 x 65,5 x 12,0	135,20 €
232055	ABS 55 inferior FG2	55,0 x 80,5 x 41,0	56,0 x 76,2 x 13,5	215,00 €
232080	ABS 80 inferior FG2	80,0 x 108,0 x 40,0	81,0 x 104,0 x 15,0	298,00 €
232090	ABS 90 inferior FG2	90,0 x 105,0 x 45,0	91,0 x 114,0 x 13,3	463,00 €
<b>Empanque em silício e nbr / Sede tipo L em silício e nbr</b>				
232041	ABS 40 inferior FG2B	40,0 x 60,0 x 28,0	41,0 x 58,0 x 10,5	113,00 €
232048	ABS 48 inferior FG2B	48,0 x 69,0 x 32,0	49,0 x 67,0 x 13,0	177,00 €
232065	ABS 65 inferior FG2B	65,0 x 90,0 x 39,0	66,0 x 86,0 x 12,0	292,50 €
232100	ABS 100 inferior FG2B	100,0 x 114,0 x 46,0	101,0 x 123,0 x 14,0	582,00 €
<b>Empanque em silício e nbr / Sede de oring em silício e nbr</b>				
232170	ABS 25 superior FG2B	25,0 x 41,0 x 23,0	26,0 x 47,0 x 05,5	88,00 €
<b>Empanque em carvão e nbr / Sede de oring em aço e nbr</b>				
232180	ABS 25 inferior PA	25,0 x 41,0 x 21,0	26,0 x 50,0 x 08,5	129,00 €
<b>Empanque em silício viton / Sede em silício viton</b>				
232200	ABS 55 AFP K 1048.1	55,0 x 73,5 x 25,0	56,0 x 72,0 x 08,0	435,00 €
<b>Empanque em silício viton / Sede em silício viton</b>				



Os preços nesta pagina são líquidos

## Empanques para GRUNDFOS

Código	Modelo	Empanque Di x De x A	Sede Di x De x A	€/ Un
230020	GCH 12 silício silício viton	12,0 x 22,0 x 32,5	13,0 x 23,0 x 07,5	55,00 €
Vendemos também as justas para este empanque				
230017	GRB 12 silício silício epdm	12,0 x 22,0 x 27,5	13,0 x 23,0 x 07,5	61,00 €
230018	GRB 16 silício silício epdm	16,0 x 26,0 x 24,5	17,0 x 27,0 x 08,0	69,00 €
Mais curtos que os GLM sem a altura em borracha				
230005	GLM 12 silício silício viton	12,0 x 22,0 x 32,5	13,0 x 23,0 x 07,5	62,00 €
230015	GLM 16 silício silício viton	16,0 x 26,0 x 31,0	17,0 x 27,0 x 08,0	70,00 €
Os GLM são mais compridos que os GRB ( os GLM são os mais comuns )				
230086	GRF 16 silício silício viton	16,0 x 26,0 x 32,5	17,0 x 27,0 x 09,0	76,00 €
230022	GKG 22 carvão silício viton	22,0 x 36,5 x 30,0	23,0 x 37,0 x 10,0 or.	65,00 €
230028	GKG 28 carvão silício epdm	28,0 x 49,0 x 42,5	29,0 x 43,0 x 07,5 or.	73,00 €
230035	GKG 33 carvão silício epdm	33,0 x 51,0 x 35,2	34,0 x 48,0 x 07,5 L	94,00 €
230038	GKG 38 carvão silício viton	38,0 x 59,0 x 46,2	39,0 x 56,0 x 09,0 or.	116,00 €
230045	GKG 45 silício silício viton	45,0 x 66,0 x 37,0	46,0 x 64,0 x 11,0 or.	155,00 €
230048	GKG 48 silício silício viton	48,0 x 70,5 x 51,0	49,0 x 66,0 x 09,0 or.	175,00 €
230055	GCR 12	Cartucho em silício silício viton		145,00 €
230060	GCR 16	Cartucho em silício silício viton		160,00 €
230065	GCR 22	Cartucho em silício silício viton		175,00 €
230050	GRA 12 tugst tugst viton	12,0 x 29,0 x 33,0	13,0 x 23,0 x 07,0	89,00 €
230052	GRA 16 tugst tugst viton	16,0 x 36,0 x 29,0	17,0 x 27,0 x 12,0	119,00 €
230090	GRL 22 tugst tugst viton	22,0 x 43,0 x 40,5	23,0 x 38,0 x 16,3	198,50 €
230070	GAP 15 silício silício viton	15,0 x 29,0 x 15,0	16,0 x 35,0 x 04,0	43,00 €
230080	GRC 12 silício silício viton	12,0 x 48,0 x 16,6	13,0 x 23,0 x 07,0	90,00 €
230085	GRC 16 silício silício viton	16,0 x 48,0 x 16,6	17,0 x 27,0 x 07,0	110,00 €
230092	GRE 22	cartucho		288,00 €
230093	GRE 22	cartucho com pino		302,00 €
230094	GRE 32	cartucho		385,00 €
230095	GRE 32	cartucho com pino		395,00 €



GCH



GRB / GLM



GRF



GKG



GCR



GRA / GRL



GRC



GRE

Os preços nesta pagina são líquidos

**Empanques para GRUNDFOS / SARLIN**

Código	Modelo	€ / Un
231010	D3S - 16 mm B Oring na sede ( peça ao centro ) *	165,00 €
231000	D3S - 16 mm Oring inserido no eixo da electrobomba	175,00 €
231025	D3S - 25 mm Oring na sede ( peça ao centro ) *	185,00 €
231030	D3S - 25 mm B Oring inserido no eixo da electrobomba	255,00 €
231040	D3S - 35 mm Oring inserido no eixo da electrobomba	265,00 €

\*) a peça ao centro tem um oring por dentro e são os mais comuns



Foto : D3S - 25 mm

D3S : carvão , silício , silício e orings em viton

Código	Modelo	Empanque Di x De x A	Sede Di x De x A	€ / Un
231050	S 21 SUP 30 mm	30,0 x 45,0 x 28,0	31,0 x 45,0 x 10,0	285,00 €
231060	S 21 SUP 38 mm	38,0 x 55,0 x 31,0	39,0 x 56,0 x 14,0	299,00 €
231070	S 21 SUP 50 mm	50,0 x 70,0 x 33,0	52,0 x 70,0 x 15,0	335,00 €
231080	S 21 SUP 65 mm	65,0 x 84,0 x 36,0	67,0 x 85,0 x 11,5	353,00 €

S 21 superior : empanque em aço e sede em carvão e orings em nbr

231090	S 21 INF 25 mm	25,0 x 35,0 x 26,5	26,0 x 38,0 x 10,0	151,00 €
231100	S 21 INF 32 mm	32,0 x 46,0 x 28,5	33,0 x 48,0 x 11,0	166,00 €
231110	S 21 INF 38 mm	38,0 x 53,0 x 38,5	40,0 x 55,0 x 11,5	202,00 €

S 21 inferior : empanque em carvão e sede em silício e orings em viton

231120	S 22 SUP 38 mm	38,0 x 53,0 x 34,0	40,0 x 56,0 x 11,0	315,00 €
231130	S 22 SUP 50 mm	50,0 x 65,0 x 34,0	51,0 x 70,0 x 09,5	335,00 €
231140	S 22 SUP 65 mm	65,0 x 84,0 x 36,0	67,0 x 85,0 x 11,0	455,00 €

S 22 superior : empanques e sedes em silício e orings em viton

231150	S 22 INF 32 mm	32,0 x 46,0 x 38,0	33,0 x 48,0 x 11,0	290,00 €
231160	S 22 INF 38 mm	38,0 x 52,0 x 38,0	39,0 x 56,0 x 11,5	385,00 €
231170	S 22 INF 50 mm	50,0 x 65,0 x 58,5	51,0 x 70,0 x 15,0	590,00 €
231180	S 22 INF 65 mm	65,0 x 84,0 x 65,5	67,0 x 85,0 x 11,0	720,00 €

S 22 inferior : empanques e sedes em silício e orings em viton

Os preços nesta pagina são líquidos

( 231050 sup + 231090 inf / 231120 sup + 231150 inf / 231130 sup + 231160 inf / 231140 sup + 231170 inf )

IVA a incluir à taxa em vigor

Esta tabela pode ser alterada sem aviso prévio

## Empanques para FLYGT

Modelo da electrobomba	Emp sup	Emp inf	Modelo da electrobomba	Emp sup	Emp inf
600	60 Q	60 Q	3101	28 B	28 I
605 / 615 / 665 / 670		80 S	3102	25 J	25 J
680 / 705 / 715 / 720 / 721 / 735	90 S	a)	3126.90 / 3126.180	35 K	35 K
745 / 760 / 765 / 770 / 775 / 820		a)	3126.91 / 3126.280 / 3126.290		35 M
840 / 860 / 880 / 881 / 900 /		a)	3126.181 / 3127		35 M
2004 / 2008 / 2012 / 2016 / 2050	15 D	15 D	3140 / 3152	45 O	45 O
2052			3170 / 3201.180	60 Q	60 Q
2024 / 2066 / 2075 / 2101	20 A	20 A	3200	60 P	60 P
2151.160 :	Kit 2 empanques + peça redonda metálica		3230 / 3300.91 / 3300.181		80 S
2060 / 2041.281 / 3057.180	20 G	20 G	3300.280 / 3300.980 / 3305		
2070 / 2102.40	22 E	22 E	3310 / 3311 / 3312 / 3350		120 T
2082 / 2090 / 2125 / 2140	28 I	28 I	3351 / 7570 / 7585	90 S	
2084 / 2135 / 2151.11 / 2151.50	35 K	35 L	3355 / 3356 / 3357		80 S
2151.10		35 K	3400		90 U
2201.10		35 K	3500 / 3501 / 3530 / 3531 / 3600		120 T
2201.11HT / 2201.11 MT	45 O	35 N	3601 / 3602		
2201,11 LT		45 O	4351 / 4352 / 4400	20 G	20 H
2201.320 / 2201.430 / 2201.480	45 N	35 N	4410 / 4430		60 Q
2201.590 / 2201.690			4440	35 M	35 M
2250 / 2290	60 P	60 P	4620.410	Cartucho 20 mm	
2400	60 R	60 R	4620.411	Cartucho 25 mm	
2600.80	Cart 25 mm metal		4620.411	Cartucho 25 mm	
3041.170 / 3041.180 / 3057	20 G	b)	4650 / 4660	45 O	45 O
3060 / 3066.180	20 G	20 G	4670 / 4680 / 7045	60 Q	60 Q
3065 / 3080	20 A	20 A	5530	35 M	35 M
3066 / 3067.90 / 3067.590		b)	7050 / 7051 / 7055 / 7060		80 S
3067.170 / 3067.180 / 3067.250	20 G	20 G	7061 / 7076 / 7556	90 S	
3067.890 / 3085.92 / 3085.170		b)	7080 / 7115		c)
3068 / 3085.91 / 3085.890		20 G	7081 / 7101		90 U
3082	22 E	22 E	Ready 4 / 8 / 12 / 16	15 D	15 D
3085.171 / 3085.172 / 3085.180		b)	Ready 24	20 A	20 A
3085.181 / 3085.182 / 3085.891	20 G		Ready 90	28 I	28 I
3085.280 / 3085.290			20 H	Steady 7	20 G

a) : Pode ser o 80 S ou o 90 U ou o 120 T .  
IVA a incluir à taxa em vigor

b) : Pode ser o 20 g ou o 20 H .

c) Pode ser o 80 S ou o 120 T

Esta tabela pode ser alterada sem aviso prévio

**Empanques para FLYGT (preços)**

Código	Modelo	€ / Un	Código	Modelo	€ / Un
235100	15 D inf. / sup.	140,00 €	235013	60 Q superior	440,00 €
235020	20 G superior	102,85 €	235015	60 Q inferior	515,00 €
235030	20 G inferior	126,50 €	235110	90 S superior	846,00 €
235050	20 H inferior	182,00 €	235115	80 S inferior	492,00 €
235080	22 E superior	156,00 €	235420	Cartuxo 20 mm plástico	357,50 €
235085	22 E inferior	175,00 €	235421	Cartuxo 20 mm metal	380,00 €
235000	25 J superior	121,00 €	235422	Cartuxo 20 mm alumínio	378,00 €
235010	25 J inferior	141,00 €	235425	Cartuxo 25 mm plástico	378,00 €
235090	28 I superior	209,00 €	235426	Cartuxo 25 mm metal	410,00 €
235095	28 I inferior	222,00 €	235428	Cartuxo 35 mm plástico	692,00 €
235070	35 k superior	248,00 €	235435	Cartuxo 35 mm metal	717,00 €
235075	35 k inferior	320,00 €	235437	Cartuxo 35 mm alumínio	717,00 €
235045	35 M superior	189,00 €	235445	Cartuxo 45 mm plástico	750,00 €
235040	35 M inferior	248,00 €	235460	Cartuxo 60 mm plástico	1.145,00 €
235078	35 L inferior	331,00 €	235480	Cartuxo 80 mm plástico	2.302,00 €
235065	45 O inferior	248,00 €	235430	kit 3 peças para 2051.160	438,00 €
235060	45 O superior	331,00 €			


**Flygt g 20**

**Flygt J 25**

**Flygt M 35**

**Flygt 45 O**
**Empanques para GRINDEX**

Código	Modelo	€ / Un
236000	Major , Master , Matador , Midi , Minette e Salvador : Z 25 mm superior	106,00 €
236010	Major , Master , Matador , Midi , Minette e Salvador : Z 24 mm inferior	199,00 €
236020	Empanque Grindex FZL 24 sil sil viton	113,50 €
236025	Empanque Grindex FZU 25 sil sil viton	103,00 €


**Cartuxo 20 , 25 , 35  
45 , 60 e 80 mm**
**Empanques para KSB**

Código	Modelo	Empanque Di x De x A	Sede Di x De x A	€ / Un
226025	GKK 25 carvão porcel. viton	25,0 x 41,0 x 23,0	26,0 x 38,0 x 07,5	55,00 €
226026	GKK 25 silício silício viton	25,0 x 41,0 x 23,0	26,0 x 38,0 x 07,5	69,00 €
226028	GKK 28 silício silício viton	28,0 x 47,0 x 36,5	29,0 x 43,0 x 14,4	75,00 €
226038	GKK 38 silício silício viton	38,0 x 58,0 x 46,2	39,0 x 56,0 x 09,0 L	103,00 €
226048	GKK 48 silício silício viton	48,0 x 69,0 x 50,5	49,0 x 66,0 x 09,0	148,50 €


**Empanques para WILO**

Código	Modelo	Empanque Di x De x A	Sede Di x De x A	€ / Un
240014	GKW 14 silício silício viton	14,0 x 28,0 x 28,4	15,0 x 25,0 x 06,6 oring	25,00 €
240017	GKW 17 silício silício epdm	17,0 x 32,0 x 19,5	19,0 x 33,0 x 07,5	31,00 €
230024	GKW 24 silício silício viton	24,0 x 41,0 x 32,5	25,0 x 39,0 x 07,5	69,00 €
240032	GKW 32 carvão silício epdm	32,0 x 51,0 x 33,0	33,0 x 50,8 x 12,0	78,00 €
240050	WILO electrob. misturadora C 24 - 4 / 36 K		50,0 x 90,0 x 52,0	685,00 €
240075	WILO electrob. misturadora		75,0 x 128,0 x 75,0	1.049,00 €


**C 24 50 e 75 mm**

IVA a incluir à taxa em vigor  
Esta tabela pode ser alterada sem aviso prévio

Os preços nesta pagina são líquidos

**Empanques SC - V para electrobombas Stairs**

Código	Modelo	Empanque Di x De x A	€ / Un
241312	Cartucho 12 mm s. s. v.	12 di x 25,0 de ( 44,0 falange ) x 55,5 alt	128,64 €
241316	Cartucho 16 mm s. s. v.	16 di x 30,0 de ( 49,0 falange ) x 58,0 alt	160,80 €
241322	Cartucho 22 mm s. s. v.	22 di x 39,5 de ( 72,0 falange ) x 70,5 alt	183,00 €


**Empanques para Motobombas**

Código	Modelo	€ / Un	Código	Modelo	€ / Un
250010	12,0 x 28,5 x 17,0	9,80 €	250020	17,5 x 38,2 x 16,0 - S	14,90 €
250120	12,0 x 30,0 x 15,0 - U	13,80 €	250110	19,0 x 40,0 x 19,5 - U	42,20 €
250000	14,5 x 30,0 x 13,5 - S	9,80 €	250080	25,0 x 51,0 x 08,3 - T	18,90 €
250060	16,0 x 36,6 x 15,0 - T	11,50 €	250175	25 x 52 x 20 + sd 26x41,3x11	24,50 €
250150	16,0 x 36,6 x 19,5 - U	14,90 €	250180	30 x 58 x 21 + sd 31x48,0x08	25,90 €
250100	16,0 x 36,6 x 21,0 - U	13,80 €			


**Vernizes Diluentes Resinas Óleos Disolventes**

Código	Referência	Classe	Cor	Secagem	€ / Lt
170005	Verniz Utimeg 375	classe B	laranja	5 Lts - sec. ar	9,20 €
170038	Verniz Utimeg 380	classe H	incolor	5 Lts - sec. estufa omolg. UL	11,00 €
170014	Verniz Utimeg 250 freon	classe H	incolor	5 Lts - secagem estufa	16,50 €
170042	Verniz Utimeg 372 acabamento	classe H	vermelho	1 Lt - sec estufa / anti flash	13,60 €
170042	Verniz Utimeg 372 acabamento	classe H	vermelho	5 Lt - sec estufa / anti flash	12,60 €
170065	Verniz Utimeg 372 acabamento	classe H	cinzento	spray 400 ml / anti flash	10,60 €
170066	Verniz Utimeg 372 acabamento	classe H	incolor	spray 400 ml / anti flash	10,60 €
170067	Verniz Utimeg 372 acabamento	classe H	laranja	spray 400 ml / anti flash	10,60 €
170068	Verniz Utimeg 372 acabamento	classe H	vermelho	spray 400 ml / anti flash	10,60 €
170135	Diluyente Utimeg T4 para os venizes 375 - 376 - 329 - 380 - 250 em latas de 5 Lts.				6,95 €
170070	Resina Leirimael polioli	classe F	creme	seco ao ar em 10 minutos	18,50 €
170071	Resina Leirimael isocianato			bidons de 1 Lt + 1 Lt	18,50 €
170073	Resina Utimeg 2020	classe H	2 compon. para impregnação gota a gota ( 1 Lt. )		28,65 €
170080	Óleo de transformador GALP Electric 2	100 % vegetal	bidons de 5 e 10 Lts.		5,75 €



Fornecemos dados técnicos e fichas de segurança de todos os produtos

IVA a incluir à taxa em vigor

Esta tabela pode ser alterada sem aviso prévio

### Escovas em carvão para ASPIRADORES

Código	larg x larg x altura	€/ Par	Código	larg x larg x altura	€/ Par
0997	5,0 x 5,0 x 14,0 fig 16	6,80 €	0993	6,3 x 11,0 x 23,0 fig 16	8,60 €
0619	6,0 x 9,0 x 20,0 fig 18	7,10 €	0621	6,3 x 11,3 x 28,5 fig 173	8,16 €
0994	6,0 x 9,0 x 29,0 fig 18	8,30 €	0975	6,4 x 11,5 x 30,0 fig 173	7,74 €
0752	6,0 x 10,0 x 26,5 fig 18	7,76 €	190028	7,0 x 11,0 x 28,0 Rainbow	9,70 €
0219	6,0 x 12,5 x 32,0 fig 26	14,30 €	0705	8,0 x 14,0 x 35,0 fig 18	10,62 €
190033	6,2 x 12,4 x 35,0 Rainbow	12,60 €			

### Escovas em carvão para A E G

0369	5,0 x 8,0 x 9,0 fig 18	10,48 €	0399.25	6,3 x 09,7 x 16,7 fig 505	8,66 €
0399.8	5,0 x 8,0 x 12,0 fig 10	3,18 €	1345	6,3 x 10,0 x 15,0 fig 173	8,90 €
0340	5,0 x 8,0 x 14,0 fig 13	4,16 €	0357	6,3 x 10,0 x 20,0 fig 180	7,28 €
0336	5,0 x 8,0 x 14,0 fig 173	5,32 €	0320	6,3 x 12,5 x 20,0 fig 180	5,42 €
0300	5,0 x 8,0 x 15,0 fig 13	3,28 €	1331	6,4 x 10,0 x 16,0 fig 180	6,18 €
1321	5,0 x 10,0 x 16,0 fig 174	7,46 €	0307	6,4 x 12,5 x 20,0 fig 38	11,46 €
1366	5,0 x 10,0 x 16,0 fig 100	6,00 €	1761	7,0 x 11,0 x 18,0 fig 18	6,64 €
0310	5,0 x 10,0 x 17,0 fig 174	3,90 €	1350	8,0 x 14,0 x 19,5 fig 521	8,52 €
0739	6,0 x 7,0 x 15,0 fig 16	5,56 €	1358	8,0 x 14,0 x 20,0 fig 174	7,90 €
0373	6,0 x 9,0 x 15,5 fig 225	4,76 €	1312	8,0 x 16,0 x 25,0 fig 38	16,00 €

### Escovas em carvão para BLACK & DECKER

0227	5,0 x 5,5 x 10,0 fig 49	2,10 €	0200	6,3 x 6,3 x 11,0 fig 3	4,72 €
0209	5,9 x 8,3 x 15,0 fig 216	3,78 €	0205	6,3 x 6,3 x 11,0 fig 13	3,94 €
0210	6,0 x 6,0 x 13,0 fig 49	2,64 €	0222	6,3 x 8,0 x 13,5 fig 183	3,90 €
0202	6,0 x 6,0 x 15,0 fig 13	3,54 €	0223	6,3 x 9,3 x 15,0 fig 24	9,82 €
0204	6,0 x 8,0 x 15,0 fig 13	5,34 €	0220	6,3 x 12,5 x 23,0 fig 534	5,68 €
0211	6,0 x 8,0 x 16,0 fig 202	5,14 €	1660	6,3 x 14,0 x 20,0 fig 506	8,22 €
0230	6,0 x 8,0 x 16,5 fig 173	5,26 €	0215	6,3 x 16,0 x 22,5 fig 187	7,66 €
0225	6,0 x 8,0 x 18,0 fig 83	5,34 €	0221	6,3 x 16,0 x 23,0 fig 533	6,38 €
0224	6,0 x 8,0 x 18,0 fig 174	4,88 €	0201	6,3 x 6,3 x 13,0 fig 13	3,68 €
0236	6,0 x 8,2 x 15,0 fig 183	5,54 €	0216	6,3 x 12,0 x 22,0 fig 187	6,18 €
0246	6,0 x 9,0 x 11,5 fig 528	5,48 €	0261	6,5 x 8,0 x 12,5 fig 261	3,38 €
1658	6,0 x 10,0 x 24,0 fig 539	10,88 €	0243	6,5 x 8,0 x 15,0 fig 505	4,00 €
0219	6,0 x 12,5 x 32,0 fig 26	14,30 €	0212	7,0 x 12,0 x 25,0 fig 18	9,70 €

IVA a incluir à taxa em vigor

Esta tabela pode ser alterada sem aviso prévio

### Escovas em carvão para BOSCH

Código	larg x larg x altura	€/ Par	Código	larg x larg x altura	€/ Par
0199.38	4,7 x 8,1 x 11,0 fig 527	3,92 €	0138	6,0 x 7,5 x 09,0 fig 524	6,06 €
0142	5,0 x 8,0 x 12,5 fig 522	5,12 €	1129.29	6,0 x 10,0 x 17,5 fig 563	12,90 €
0188	5,0 x 8,0 x 12,5 fig 505	4,76 €	1116	6,3 x 6,3 x 11,5 fig 24	10,20 €
0199.21	5,0 x 8,0 x 13,5 fig 512	5,30 €	1140	6,3 x 12,5 x 22,0 fig 533	10,30 €
0157	5,0 x 8,0 x 14,5 fig 16	4,64 €	1110	6,3 x 12,5 x 23,0 fig 187	9,82 €
0149	5,0 x 8,0 x 15,0 fig 49	5,14 €	1120	6,3 x 12,5 x 25,0 fig 511	9,26 €
0105	5,0 x 8,0 x 15,5 fig 16	3,94 €	1199.10	6,3 x 12,5 x 25,0 fig 533	9,46 €
0167	5,0 x 8,0 x 15,5 fig 183	4,58 €	1128	6,3 x 16,0 x 22,0 fig 174	7,28 €
0188	5,0 x 8,0 x 15,5 fig 501	2,50 €	1112	6,3 x 16,0 x 22,0 fig 187	6,60 €
0118	5,0 x 8,0 x 16,0 fig 131	7,12 €	1153	6,3 x 16,0 x 26,0 fig 174	7,36 €
1199.03	5,0 x 8,0 x 17,5 fig 529	5,22 €	0115	6,35 x 10,0 x 17,0 fig 187	6,26 €
0141	5,0 x 8,0 x 18,0 fig 190	4,62 €	1199.09	6,35 x 12,5 x 22,0 fig 189	9,26 €
1114	5,0 x 8,0 x 18,0 fig 561	6,58 €	0162	6,35 x 14,3 x 16,5 fig 18	8,74 €
0169	5,0 x 8,0 x 19,0 fig 531	5,00 €	0100	6,45 x 6,4 x 15,5 fig 16	4,46 €
0199.01	5,0 x 8,0 x 19,0 fig 523	5,64 €	0131	6,4 x 10,0 x 19,0 fig 18	6,96 €
0199.15	5,0 x 8,0 x 19,0 fig 535	5,80 €	1117	6,4 x 12,5 x 19,0 fig 189	7,72 €
1146	5,0 x 10,0 x 17,0 fig 502	6,82 €	1199.31	6,5 x 8,0 x 13,0 fig 505	7,86 €
1152	5,0 x 10,0 x 17,0 fig 505	6,76 €	0174	7,0 x 8,0 x 17,0 fig 295	5,02 €
0199.06	5,0 x 10,0 x 21,0 fig 512	5,58 €	0199.23	7,0 x 8,0 x 18,5 fig 174	8,92 €
			1199.24	7,0 x 17,0 x 16,0 fig 18	11,10 €

### Escovas em carvão para DEWALT

0912	5,0 x 8,0 x 16,0 fig 285	7,34 €	1999.08	6,3 x 16,0 x 26,0 fig 539	13,82 €
1945	5,2 x 9,5 x 12,7 fig 512	9,00 €	1233	6,3 x 16,0 x 23,0 fig 180	17,30 €
0949	6,0 x 7,0 x 13,0 fig 49	2,78 €	1999.03	6,3 x 16,0 x 26,0 fig 533	9,12 €
0934	6,0 x 7,0 x 13,0 fig 513	4,20 €	1999.05	6,3 x 16,0 x 26,0 fig 533	11,66 €
1942	6,0 x 10,0 x 24,0 fig 204	7,56 €	1254	6,35 x 8,0 x 16,5 fig 537	6,58 €
1999.04	6,0 x 10,0 x 24,0 fig 533	10,46 €	1999.07	6,4 x 10,0 x 13,0 fig 538	7,84 €
0967	6,3 x 6,3 x 11,5 fig 51	2,72 €	1936	6,4 x 10,0 x 14,0 fig 506	7,38 €
0966	6,3 x 6,3 x 13,0 fig 183	4,18 €	0913	6,4 x 10,0 x 17,5 fig 296	7,34 €
0999.17	6,3 x 6,3 x 13,5 fig 49	3,68 €	1256	6,5 x 12,0 x 13,5 fig 505	5,76 €
0899	6,3 x 8,0 x 13,0 fig 510	6,16 €	0896	7,0 x 10,5 x 17,0 fig 508	7,94 €
0999.09	6,3 x 8,0 x 13,0 fig 540	8,88 €	0259	7,0 x 11,0 x 23,0 fig 174	11,02 €
0948	6,3 x 8,0 x 13,5 fig 506	4,26 €	1999.18	7,0 x 11,0 x 23,0 fig 444	17,22 €
0898	6,3 x 10,0 x 14,0 fig 506	5,36 €	1895	7,0 x 12,0 x 22,0 fig 507	20,28 €
1999.05	6,3 x 16,0 x 26,0 fig 533	11,66 €			

IVA a incluir à taxa em vigor

Esta tabela pode ser alterada sem aviso prévio

**Escovas em carvão para CASALS**

Código	larg x larg x altura	€ / Par	Código	larg x larg x altura	€ / Par
0408	5,0 x 5,0 x 10,5 fig 131	5,46 €	1424	5,0 x 10,0 x 14,5 fig 190	5,44 €

**Escovas em carvão para FEIN**

1988	5,0 x 10,0 x 17,0 fig 100	8,48 €	0736	8,0 x 12,5 x 22,0 fig 204	7,70 €
1745	6,4 x 12,5 x 18,0 fig 18	10,44 €			

**Escovas em carvão para FELISATTI**

0649	6,3 x 12,5 x 16,0 fig 517	5,84 €	0760	7,0 x 12,0 x 18,0 fig 104	16,14 €
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**Escovas em carvão para FESTOOL**

1999.10	5,0 x 08,0 x 12,5 fig 13	8,68 €	0951	6,3 x 08,0 x 16,0 fig 173	6,10 €
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**Escovas em carvão para FLEX**

0754	6,0 x 13,0 x 19,0 fig 26	6,50 €	1775	6,3 x 8,0 x 19,5 fig 532	7,94 €
0601	6,0 x 16,0 x 20,0 fig 26	7,80 €	0776	6,3 x 16,0 x 22,0 fig 26	8,10 €
1629	6,3 x 7,0 x 15,5 fig 506	7,84 €			

**Escovas em carvão para FRAN**

0753	8,0 x 12,0 x 23,0 fig 18	7,80 €
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**Escovas em carvão para HILTI**

1793	5,0 x 8,0 x 12,0 fig 261	13,46 €	1641	6,3 x 16,0 x 22,0 fig 444	11,78 €
1640	5,0 x 8,0 x 15,0 fig 261	9,50 €	1799.04	7,0 x 12,5 x 26,0 fig 174	10,66 €
1642	5,0 x 8,0 x 18,0 fig 505	6,24 €	1622	7,0 x 12,5 x 26,0 fig 440	13,12 €
1623	6,3 x 10,0 x 19,0 fig 440	10,80 €	1791	8,3 x 8,0 x 18,5 fig 183	7,46 €
1792	6,3 x 12,5 x 19,0 fig 180	7,06 €			

**Escovas em carvão para HITACHI**

0799.01	5,0 x 6,0 x 11,0 fig 527	8,96 €	1922	7,0 x 11,0 x 17,0 fig 232	7,88 €
0798	6,5 x 7,5 x 12,0 fig 235	4,50 €	1923	7,0 x 13,0 x 17,0 fig 232	7,76 €
1921	6,5 x 7,5 x 13,0 fig 234	6,36 €	0671	7,0 x 13,0 x 22,0 fig 174	4,86 €
1928	6,5 x 7,5 x 14,0 fig 190	7,66 €	0796	7,0 x 17,0 x 17,0 fig 233	9,28 €
1799.06	6,5 x 9,0 x 13,5 fig 100	8,20 €	1699	7,0 x 17,0 x 23,0 fig 174	8,00 €
0930	6,5 x 9,0 x 17,0 fig 100	4,82 €			

### Escovas em carvão para KANGO

Código	larg x larg x altura	€/ Par	Código	larg x larg x altura	€/ Par
1417	6,3 x 9,5 x 20,0 fig 122	7,96 €	0450	6,3 x 20,0 x 25,0 fig 189	14,24 €

### Escovas em carvão para LEGNA

0702	6,0 x 10,0 x 19,5 fig 18	6,62 €	0700	6,0 x 12,0 x 16,0 fig 18	7,44 €
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### Escovas em carvão para MAKITA

0899.02	3,0 x 10,0 x 13,2 fig 548	8,32 €	0899.21	6,0 x 9,0 x 12,5 fig 537	3,24 €
0832	5,0 x 8,0 x 9,5 fig 26	7,32 €	0836	6,0 x 10,0 x 15,0 fig 18	4,88 €
0899.20	5,0 x 8,0 x 10,5 fig 240	5,00 €	1840	6,0 x 10,0 x 15,0 fig 18	9,62 €
0851	5,0 x 8,0 x 11,0 fig 240	6,50 €	1662	6,5 x 11,0 x 25,0 fig 537	3,90 €
0656	5,0 x 6,0 x 11,5 fig 18	6,52 €	1848	6,5 x 13,5 x 16,0 fig 18	9,90 €
0853	5,0 x 8,0 x 11,5 fig 16	3,96 €	1899.07	6,5 x 13,5 x 27,0 fig 533	6,96 €
0661	5,0 x 11,0 x 15,5 fig 536	2,88 €	0655	7,0 x 7,4 x 09,5 fig 18	7,00 €
1652	5,0 x 11,0 x 15,5 fig 536	7,04 €	0899.06	7,0 x 10,9 x 10,5 fig 18	6,96 €
0842	5,0 x 11,0 x 16,5 fig 323	7,36 €	0899.14	7,0 x 11,0 x 16,5 fig 18	7,84 €
0861	6,0 x 9,0 x 11,0 fig 261	4,96 €	1914	7,0 x 18,0 x 16,0 fig 18	7,56 €
0856	6,0 x 9,0 x 12,0 fig 16	6,26 €			

### Escovas em carvão para METABO

1814	5,0 x 6,3 x 15,0 fig 237	6,76 €	1825	6,0 x 16,0 x 24,0 fig 509	7,26 €
0899.12	5,0 x 10,0 x 14,5 fig 16	9,46 €	1810	6,3 x 6,3 x 14,0 fig 267	7,38 €
0802	6,0 x 6,0 x 13,0 fig 173	4,72 €	1801	6,3 x 8,0 x 15,0 fig 179	8,24 €
1899.24	6,0 x 12,5 x 14,5 fig 566	6,86 €	1809	6,4 x 6,4 x 14,5 fig 72	5,92 €
1899.03	6,0 x 12,5 x 19,0 fig 547	5,64 €	1899.27	8,0 x 12,5 x 14,5 fig 566	7,84 €
1822	6,0 x 16,0 x 20,0 fig 533	6,96 €			

### Escovas em carvão para MILWAUKEE

0381	5,0 x 13,0 x 15,0 fig 562	6,92 €	1370	5,9 x 11,1 x 17,5 fig 542	19,52 €
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### Escovas em carvão para PEUGEOT

0762	6,0 x 6,0 x 11,5 fig 16	3,56 €	0723	9,0 x 14,0 x 22,0 fig 187	7,48 €
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### Escovas em carvão para RIGID

0973	8,8 x 19,0 x 25,0 fig 18	19,90 €
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IVA a incluir à taxa em vigor

Esta tabela pode ser alterada sem aviso prévio

**Escovas em carvão para RYOBI**

Código	larg x larg x altura	€/ Par	Código	larg x larg x altura	€/ Par
0706	5,2 x 11,0 x 15,5 fig 18	5,46 €	0716	6,4 x 13,4 x 17,0 fig 18	6,34 €
0755	6,0 x 8,0 x 13,0 fig 174	4,98 €	0715	6,5 x 16,0 x 16,0 fig 18	14,52 €
0864	6,0 x 9,0 x 15,0 fig 300	9,76 €	1761	7,0 x 11,0 x 18,0 fig 18	6,64 €
0714	6,4 x 9,5 x 16,5 fig 18	5,64 €	0756	7,0 x 16,0 x 18,0 fig 18	10,22 €
			0648	7,0 x 19,0 x 14,5 fig 18	8,66 €

**Escovas em carvão para RUBI**

0799.15	7,0 x 15,0 x 16,5 fig 16	6,00 €
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**Escovas em carvão para SKIL**

0740	4,8 x 6,35 x 13,0 fig 13	5,68 €	0517	5,5 x 8,5 x 14,0 fig 505	5,10 €
0523	5,0 x 8,0 x 11,0 fig 552	6,26 €	0524	7,0 x 11,0 x 17,0 fig 18	4,92 €
0514	5,0 x 8,0 x 15,0 fig 261	7,78 €			

**Escovas em carvão para SPIT**

1999.01	6,3 x 10,0 x 15,5 fig 526	9,34 €	0962	6,4 x 10,0 x 15,5 fig 204	6,70 €
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**Escovas em carvão para STAYER**

1749	6,0 x 14,0 x 22,0 fig 514	7,52 €	0826	6,3 x 8,0 x 12,5 fig 514	9,46 €
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**Escovas em carvão para VIRUTEX**

0550	5,0 x 11,0 x 19,0 fig 512	5,72 €	0551	6,4 x 10,0 x 20,5 fig 173	5,44 €
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**Escovas em carvão para WERKU**

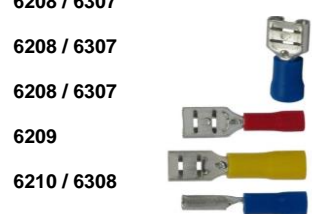
0799.08	6,5 x 9,0 x 17,0 fig 18	5,32 €
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**Terminais isolados**

**Anilhas de compensação**

Código	Modelo	€/ 100
145010	Olhal 4 mm vermelho	6,80 €
145020	Olhal 5 mm vermelho	7,00 €
145030	Olhal 6 mm vermelho	7,20 €
145040	Olhal 4 mm azul	7,00 €
145050	Olhal 5 mm azul	7,20 €
145060	Olhal 6 mm azul	8,60 €
145070	Olhal 8 mm azul	9,00 €
145080	Olhal 4 mm amarelo	7,20 €
145090	Olhal 5 mm amarelo	8,00 €
145100	Olhal 6 mm amarelo	12,50 €
145110	Olhal 8 mm amarelo	13,00 €
145120	Olhal 10 mm amarelo	13,90 €
145230	Forquilha 6 mm amarelo	9,60 €
145270	Faston macho 6,3 vermelho	7,20 €
145300	Faston macho 6,3 amarelo	8,90 €
145310	Faston fêmea 2,8 vermelho	9,80 €
145320	Faston fêmea 4,8 vermelho	7,30 €
145330	Faston fêmea 6,3 vermelho	8,10 €
145340	Faston fêmea 4,8 azul	7,90 €
145350	Faston fêmea 6,3 azul	8,20 €
145360	Faston fêmea 6,3 amarelo	9,10 €
145380	Faston macho / fêmea 6,3 azi	9,80 €
145390	Faston Fe vm 4,8 mm isolado	8,10 €
145395	Faston Fe vm 6,3 mm isolado	8,50 €
145400	Faston Fe az 4,8 mm isolado	10,20 €
145405	Faston Fe az 6,3 mm isolado	10,20 €
145420	Macho 4 mm verm redondo	10,00 €
145425	Macho 4 mm azul redondo	11,00 €
145430	Macho 5 mm amar redondo	12,00 €
145435	Fêmea 4 mm verm redonda	11,50 €
145440	Fêmea 4 mm azul redonda	12,50 €
145445	Fêmea 5 mm amar redonda	13,50 €
145460	Ponteira vermelha	9,30 €
145470	Ponteira azul	9,50 €
145480	Ponteira amarela	10,20 €
145490	União vermelha	8,80 €
145500	União azul	9,20 €
145510	União amarela	13,20 €

Código	Espessura x DI x DE	€/ Un
187000	0,3 x 14,5 x 21,8 mm	0,10 €
187010	0,3 x 17,5 x 23,8 mm	0,11 €
187020	0,5 x 19,3 x 25,8 mm	0,12 €
187030	0,5 x 21,0 x 27,8 mm	0,13 €
187035	0,5 x 22,5 x 29,7 mm	0,14 €
187042	0,4 x 26,5 x 31,7 mm	0,15 €
187047	0,4 x 28,0 x 34,5 mm	0,16 €
187050	0,5 x 30,0 x 36,4 mm	0,18 €
187060	0,5 x 29,5 x 39,5 mm	0,20 €
187062	0,3 x 33,3 x 39,8 mm	0,22 €
187063	0,4 x 34,5 x 41,0 mm	0,24 €
187065	0,5 x 37,0 x 45,0 mm	0,26 €
187067	0,4 x 40,0 x 46,5 mm	0,28 €
187077	0,5 x 41,0 x 51,8 mm	0,30 €
187087	0,5 x 49,9 x 61,9 mm	0,35 €
187092	0,6 x 58,0 x 71,8 mm	0,40 €
187100	1,0 x 71,0 x 79,0 mm	0,45 €
187105	0,6 x 71,0 x 79,0 mm	0,50 €
187107	0,7 x 63,0 x 79,8 mm	0,55 €
187115	0,6 x 74,0 x 84,0 mm	0,60 €
187118	0,5 x 79,0 x 89,0 mm	0,65 €
187130	0,6 x 89,0 x 99,0 mm	0,70 €
187135	0,5 x 89,0 x 99,0 mm	0,75 €
187140	1,0 x 99,0 x 109,0 mm	0,80 €
187145	0,6 x 99,0 x 109,0 mm	0,85 €
187150	0,8 x 104,0 x 119,0 mm	1,00 €
187160	0,8 x 110,0 x 129,0 mm	1,20 €
187170	0,9 x 121,0 x 139,0 mm	1,50 €
187180	0,9 x 126,0 x 149,0 mm	1,90 €
187190	1,0 x 137,0 x 159,0 mm	3,50 €
187200	1,0 x 147,0 x 169,0 mm	4,00 €



600  
6200  
6201  
6202 / 6300  
6301  
6203  
6203  
6302  
6204 / 6303  
6205 / 6304  
6206 / 6305  
6207 / 6306  
6208 / 6307  
6208 / 6307  
6208 / 6307  
6209  
6210 / 6308  
6211 / 6309  
6211 / 6309  
6212 / 6310  
6212 / 6310  
6213  
6215 / 6312  
6216 / 6313  
6217 / 6314  
6218 / 6315  
6219 / 6316

**varetas de cobre**

Código	Referência	€/ Kg
163220	Varetas de cobre fosforoso 2 mm / P7	27,50 €

### Hipsótermicos

Código	Temperatura	€ / Un
166120	120 °	3,85 €
166130	130 °	3,85 €
166140	140 °	3,85 €
166150	150 °	3,85 €



fios com 300 mm

### Termistor PTC

Código	Temperatura	€ / Un
166180	80 ° branco branco	4,50 €
166220	120 ° cinzento cinzento	4,50 €
166230	130 ° azul azul	4,50 €
166240	140 ° branco azul	4,50 €
166250	150 ° preto preto	4,50 €
166260	160 ° azul vermelho	4,50 €
166265	170 ° branco verde	4,50 €

### Termistor PTC triplo

166270	80 ° branco amarelo branco	11,85 €
166280	90 ° verde amarelo verde	11,85 €
166290	100 ° vermelho amarelo vermelho	11,85 €
166300	110 ° castanho amarelo castanho	11,85 €
166310	120 ° cinzento amarelo cinzento	11,85 €
166320	130 ° azul amarelo azul	11,85 €
166340	140 ° branco amarelo azul	11,85 €
166345	145 ° branco amarelo preto	11,85 €
166350	150 ° preto amarelo preto	11,85 €
166355	155 ° azul amarelo preto	11,85 €
166360	160 ° azul amarelo vermelho	11,85 €
166370	170 ° branco amarelo verde	11,85 €
166380	180 ° branco amarelo verme	11,85 €

### Sonda termistor PT 100

166800	fios com 1000 mm	12,95 €
166810	fios com 3000 mm	16,80 €

### Interruptores

175025	16 amp On-Off 10 mm	1,95 €
175010	16 amp On-Off	1,95 €
175013	16 amp On-Off com proteção	2,50 €
175011	16 amp On-Off teimoso	5,00 €
175015	16 amp On-Off-On	3,25 €
175020	16 amp On-Off-On teimoso	4,50 €
175090	16 amp KJD17F / 4 pinos	15,20 €
175095	16 amp KJD17F / 5 pinos	18,90 €



175010



175011



175020



175090

### Cabo de borracha H 07 RN F

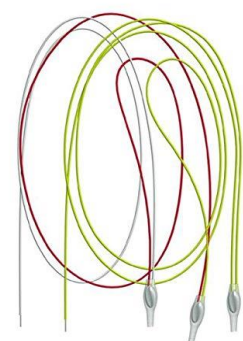
Código	Referência	€ / Mt
172350	3G 1,0 mm	
172400	3G 1,5 mm	
172460	3G 2,5 mm	
172450	4G 1,5 mm	
172500	4G 2,5 mm	
172502	4G 4,0 mm	
172506	4G 6,0 mm	
172510	4G 10,0 mm	
172520	5G 4,0 mm	
172550	7G 1,5 mm	
172600	7G 2,5 mm	
172800	12G 1,5 mm	
172820	12G 2,5 mm	

Sob consulta



### Platinados rabor

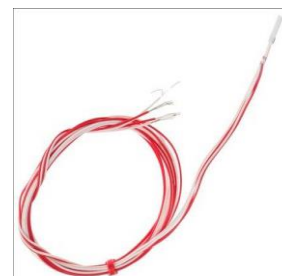
Código	Modelo	€ / Un
174000	Meia lua	13,80 €



### Marcadores para cabos

Código	Diâmetro	€ / Un
900170	+ - 0-1-2-3-4-5-6-7-8-9 A-B-C ...U-V-W-X-Y-Z	4,00 €

cada régua contém 36 marcadores iguais



**Induzidos novos**

184011	Bosch mart. GBH 2 24 227	40,00 €
184006	Bosch mart. GBH 2 - 22 RE	40,00 €
184015	Bosch mart. GSH 5 CE 098	74,50 €
184016	Bosch mart. GBH 5 CE 180	74,50 €
184014	Bosch mart. GBH 5 DCE	75,50 €
184012	Bosch mart. GBH 5 - 38 D 083	75,50 €
184007	Bosch mart. GSH 7 - 45 E	87,50 €
184020	Bosch mart. GSH 10 C	87,50 €
184005	Bosch mart. GSH 11 E 072	92,50 €
184021	Bosch mart. USH 10 019	75,00 €
184017	Bosch mart. USH 27	135,00 €
184024	Bosch rebar. GWS 7-115 C88	27,50 €
184027	Bosch rebar. GWS 10-125	30,00 €
184028	Bosch rebar. GWS 18	53,00 €
184023	Bosch rebar. GWS 20-22	60,00 €
184022	Bosch rebar. GWS 26	60,00 €
184031	Dewalt D 25600 / 25830	70,00 €
184032	Dewalt D 25602 K	67,50 €
184030	Dewalt D 25900 K	75,00 €
184035	Dewalt DW 490	55,00 €
184033	Dewalt DW 540 / 541	60,00 €
184034	Dewalt DW 543 / 545	60,00 €
184035	Hilti mart. TE 2	44,00 €
184040	Hilti mart. TE 5	65,00 €
184039	Hilti mart. TE 22	61,00 €
184041	Hilti mart. TE 54 / 55	57,50 €
184038	Hilti mart. TE 56	62,50 €
184043	Hilti mart. TE 72	57,50 €
184042	Hilti mart. TE 704	72,50 €
184035	Hilti mart. TE 805	68,50 €
184051	Hitachi mart. DH 40 MA	65,00 €
184052	Hitachi mart. DH 40 MR	55,00 €
184059	Hitachi mart. H 45 MA	55,00 €
184053	Hitachi mart. H 45 MR	55,00 €
184056	Hitachi mart. H 60 MR MRV	75,00 €
184057	Hitachi mart. H 65 SB	80,00 €
184060	Hitachi rebar. G 23 SC 2	54,00 €

**Induzidos novos**

184055	Hitachi rebar. G 23 SE 2	54,00 €
184061	Hitachi rebar. G 23 SF 2	54,00 €
184100	Rainbow bobinado 185 mm	65,00 €
184100	Rainbow bobinado 193 mm	65,00 €

**Rodas dentadas / Regul electrónicos**

900142	Bosch GSH 5 E 062	31,50 €
900143	Bosch GSH 5 CE 083	40,00 €
900144	Bosch GSH 11 E 045	44,50 €
900077	Dewalt D 25600 K / 25830 K	42,50 €
900078	Dewalt D 25831 K	40,00 €
900079	Dewalt D 25900 K	40,00 €
900152	Hitachi H 65 SB	15,00 €
900135	Reg Elect. Bosch GSH 11 E	44,50 €

**Cabo de borracha com ficha vulcanizada**

Código	Diâmetro	€ / Un
172210	H05RN-F 2 x 1.0 mm x 3 Mt.	5,50 €
172211	H05RN-F 2 x 1.0 mm x 4 Mt.	6,50 €
172214	H07RN-F 2 x 1.5 mm x 3 Mt.	6,80 €
172215	H07RN-F 2 x 1.5 mm x 4 Mt.	7,90 €
172220	H07RN-F 2 x 1.5 mm x 5 Mt.	9,70 €
172315	H07RN-F 3 x 1.5 mm x 4 Mt.	12,60 €

**Passa cabos**

Código	Diâmetro	€ / Un
173080	10,0 x 85 mm	1,80 €
173085	10,0 x 90 mm	1,12 €
173090	08,0 x 65 mm	1,12 €



**Motores de aspirador**

Código	Modelo	€/ Un	De x Alt.	Características
400000	1000 w liquidos	57,20 €	143 x 136	fig. A c/ 1 turbina com vent.
400100	1000 w liquidos	62,40 €	143 x 168	fig. B c/ 2 turbinas com vent.
400200	1200 w liquidos	67,60 €	143 x 176	fig. B c/ 2 turbinas com vent.
400110	500 w liquidos 24 v	129,00 €	143 x 170	fig. B c/ 2 turbinas com vent.
400330	600 w liquidos 36 v	145,60 €	143 x 199	fig. C c/ 3 turbinas com vent.
407020	700 w pó	60,30 €	107 x 120	fig. D c/ 1 turbina sem vent.
401050	1000 w pó	57,20 €	144 x 125	fig. D c/ 1 turbina sem vent.
407050	800 w pó	67,60 €	107 x 154	fig. E c/ 2 turbinas sem vent.
401150	1100 w pó FISE	69,50 €	144 x 155	fig. E c/ 2 turbinas sem vent.
401200	1200 w pó	70,70 €	144 x 165	fig. E c/ 2 turbinas sem vent.
402000	1100 w asp.central	81,10 €	144 x 140	fig. G c/ 1 turbina c/ tubo
402030	1200 w asp.central	87,40 €	144 x 180	fig. H c/ 2 turbinas c/ tubo
402170	500 w asp.central 24 v	140,40 €	144 x 165	fig. H c/ 2 turbinas c/ tubo
402140	1400 w asp.central	128,30 €	144 x 205	fig. I c/ 3 turbinas c/ tubo
402180	500 w asp.central 24 v	146,70 €	144 x 194	fig. I c/ 3 turbinas c/ tubo
402200	500 w asp.central 36 v	146,70 €	144 x 194	fig. I c/ 3 turbinas c/ tubo
404050	950 w pó	60,30 €	115 x 115	fig. J c/ 1 turbina em inox
404105	1200 w pó	47,90 €	130 x 110	fig. J c/ 1 turbina em inox
404125	1200 w pó	47,90 €	130 x 112	fig. J c/ 1 turbina em inox
404115	900 w pó	47,90 €	130 x 115	fig. J c/ 1 turbina em inox
404126	1400 w pó	47,90 €	130 x 115	fig. J c/ 1 turbina em inox
404110	1800 w pó LG	54,10 €	130 x 116	fig. J c/ 1 turbina em inox
404127	1400 w pó	47,90 €	130 x 120	fig. J c/ 1 turbina em inox
404150	1400 w pó	54,10 €	130 x 120	fig. J c/ 1 turbina em inox
404130	2000 w pó Sams. com gola	47,90 €	130 x 121	fig. J c/ 1 turbina em inox
404135	1200 w pó	54,10 €	135 x 105	fig. J c/ 1 turbina em inox
404138	1400 w pó	47,90 €	135 x 110	fig. J c/ 1 turbina em inox
404155	1400 w pó	47,90 €	135 x 115	fig. J c/ 1 turbina em inox
404140	1600 w pó Sams. com gola	47,90 €	135 x 118	fig. J c/ 1 turbina em inox
404156	1800 w pó	47,90 €	135 x 120	fig. J c/ 1 turbina em inox
404159	2200 w pó	51,00 €	135 x 125	fig. J c/ 1 turbina em inox
404160	1400 w pó	54,10 €	138 x 125	fig. J c/ 1 turbina em inox
403000	1400 w Polty liquidos	77,00 €	129 x 132	fig. L c/ 1 turbina cerâmica
403010	1400 w Polty liquidos	83,20 €	143 x 136	fig. L c/ 1 turbina cerâmica
403100	1400 w Polty / Nilfisk pó	63,50 €	129 x 118	fig. M c/ 1 turbina cerâmica
403110	1400 w Polty / Nilfisk pó	83,50 €	139 x 125	fig. M c/ 1 turbina cerâmica
404000	1200 w Domel liquidos CH	75,00 €	130 x 128	fig. N c/ 1 turb. c/ vent. verm.
404010	1350 w Domel liquidos	90,00 €	130 x 128	fig. N c/ 1 turb. c/ vent. verm.
405000	1300 w Domel pó	81,20 €	120 x 115	fig. O c/ 1 turb. s/ vent.



Motores de aspirador não são objeto de garantia comercial

IVA a incluir à taxa em vigor

Esta tabela pode ser alterada sem aviso prévio

**Contactores fig. A**

Código	Modelo	€ / Un
304011	D 1201	13,90 €
304012	D 1210	13,90 €
304017	D 1801	17,00 €
304018	D 1810	17,00 €
304024	D 2501	23,50 €
304025	D 2510	23,50 €
304031	D 3201	29,90 €
304032	D 3210	29,90 €
304040	D 4011	70,20 €
304050	D 5011	76,80 €
304065	D 6511	85,20 €
307080	D 8011	102,30 €
304095	D 9511	120,00 €

24 , 48 , 110 , 230 e 400 v

**Bobines para contadores fig. E**

303012	D 12 a D 18	4,70 €
303025	D 25 a D 32	6,40 €
303040	D 40 a D 80	10,95 €

**Mini contadores fig G**

309009	9 Amperes N F	16,60 €
309010	9 Amperes N A	16,60 €

**Relés fig. H**

308004	0.40 a 0.63 Amperes	12,40 €
308006	0.63 a 1.00 Amperes	12,40 €
308010	1.00 a 1.60 Amperes	12,40 €
308016	1.60 a 2.50 Amperes	12,40 €
308025	2.50 a 4.00 Amperes	12,40 €
308040	4.00 a 6.30 Amperes	12,40 €
308055	5.50 a 8.00 Amperes	12,40 €
308070	7.00 a 10.0 Amperes	12,40 €
308090	9.00 a 13.0 Amperes	12,40 €
308120	12.0 a 18.0 Amperes	12,40 €
308170	17.0 a 25.0 Amperes	12,40 €

**Dijuntor motor fig. B**

301004	0,40 a 0,63 Amp.	37,00 €
301006	0,63 a 1,00 Amp.	37,00 €
301010	1,00 a 1,60 Amp.	37,00 €
301016	1,60 a 2,50 Amp.	37,00 €
301025	2,50 a 4,00 Amp.	37,00 €
301040	4,00 a 6,00 Amp.	37,00 €
301060	6,00 a 10,0 Amp.	37,00 €
301100	10,0 a 16,0 Amp.	37,00 €
301160	16,0 a 20,0 Amp.	37,00 €

**Discontadores sem relé fig. C**

302012	D 12 amperes sem relé	37,20 €
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**Fichas fig D**

315011	Shunco macho Aslo	1,90 €
315020	Shunco macho ABL	2,90 €

**Solda tinol fig. F**

Código	Estanho / Chumbo	€ / Kg
163100	60 / 40 - 1 mm	52,50 €
163200	60 / 40 - 2 mm	52,50 €

**Boias de nivel fig. J**

177005	0,5 Mt	10,85 €
177015	1,5 Mt	14,50 €

**Pontes retificadoras fig. L**

Código	Modelo	€ / Un
164025	25 Amperes / 1000 v	3,95 €
164035	35 Amperes / 1000 v	3,95 €
164050	50 Amperes / 1000 v	3,95 €



A



B



C



D



E



F



G



H



J



L

**Transformadores eléctricos fig. A**

700000	230 / 12 v - 20 VA	32,30 €
700005	230 / 12 v - 25 VA	33,40 €
700006	230 / 12 v - 30 VA	34,40 €
700008	230 / 12 v - 40 VA	36,10 €
700010	230 / 12 v - 50 VA	36,90 €
700015	230 / 12 v - 63 VA	38,30 €
700020	230 / 12 v - 75 VA	40,60 €
700025	230 / 12 v - 100 VA	49,00 €
700030	230 / 12 v - 150 VA	60,00 €
700035	230 / 12 v - 200 VA	64,40 €
700040	230 / 12 v - 250 VA	82,80 €
700045	230 / 12 v - 300 VA	89,40 €
700050	230 / 12 v - 350 VA	102,20 €
700055	230 / 12 v - 400 VA	111,70 €
700060	230 / 12 v - 500 VA	128,00 €
700065	230 / 12 v - 600 VA	134,80 €
700070	230 / 12 v - 750 VA	172,50 €
700075	230 / 12 v - 1000 VA	217,40 €
700080	230 / 12 v - 1500 VA	378,90 €
700082	230 / 12 v - 1800 VA	391,60 €
700090	230 / 12 v - 3500 VA	709,50 €

Preços para transformadores com 2 tensões

Por cada tensão extra o preço acresce 10 %

Exemplo : 230 - 400 / 12 v - 20 VA : 32,23 €

Exemplo 2 : 230 - 400 / 12 - 24 v - 20 VA : 35,16 €

Com fusível até 5 amperes acresce 6,80 €

Com borne terra acresce 3,00 €

**Transformadores Toroidais fig. E**

Preços sob consulta

**Motoventiladores fig. B**

413010	10 / 43 w	15,90 €
413016	16 / 60 w	19,20 €
413025	25 / 90 w	21,30 €
413035	34 / 105 w	26,50 €

**Pás para motoventiladores Fig. C**

414150	Pá 150 mm	2,10 €
414170	Pá 170 mm	2,25 €
414200	Pá 200 mm	2,35 €
414230	Pá 230 mm	2,45 €
414250	Pá 250 mm	2,55 €
414300	Pá 300 mm	2,75 €

**Botoneiras fig. D**

310040	Botoneira 2 Enc. Mec. + PE	33,50 €
310050	Botoneira 4 Enc. Mec. + PE	39,70 €
310060	Botoneira 6 Enc. Mec. 1 NA	39,20 €
310080	Botoneira 8 Enc. Mec. 1 NA	53,00 €

**Chapas de Baquelite fig. F**

Código	Diâmetro	€/ Kg
142010	1 mm	10,40 €
142020	2 mm	9,80 €
142030	3 mm	9,40 €
142040	4 mm	9,40 €
142050	5 mm	9,40 €
142060	6 mm	9,40 €
142080	8 mm	9,40 €
142100	10 mm	9,40 €
142120	12 mm	9,40 €
142150	15 mm	9,40 €
142200	20 mm	9,40 €



A



B



C



D



E



F

**Moldes fig. A**

Código	Modelo	€/ par
188040	Cilíndricos 40 mm	46,20 €
188060	Cilíndricos 60 mm	49,40 €
188080	Cilíndricos 80 mm	56,80 €
188100	Cilíndricos 100 mm	63,00 €
188120	Cilíndricos 120 mm	78,50 €
188150	Cilíndricos 150 mm	88,00 €
188010	Escalares D 10	56,00 €
188015	Escalares D 15	63,00 €
188020	Escalares D 20	68,30 €
188025	Escalares D 25	78,50 €
188030	Escalares D 30	88,20 €
188035	D 40 + pernos	578,60 €
188160	Pernos para moldes	61,00 €

**Maquinas raspar fio cobre fig. B**

Código	Modelo	€/ un
900099	Abisorex 2 / 0,2 a 1,5 mm	635,00 €
900057	Abisorex 3 / 0,3 a 4,0 mm	635,00 €
900273	Laminas para Abisorex 2	148,00 €
900274	Laminas para Abisorex 3	148,00 €
900275	Cabeça c/ lam. Abisorex 2	295,00 €
900276	Cabeça c/ lam. Abisorex 3	295,00 €



**Chave meia lua vermelha fig. D**

188205	5 x 400 mm	13,10 €
188210	6 x 400 mm	14,20 €

**Espatula azul limpa canais fig. E**

188200	8 x 415 mm	14,50 €
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**Cunhas para a bobinagem fig. C**

Código	Modelo	€/ un
188245	180 mm - 1	4,20 €
188250	190 mm - 2	5,15 €
188255	200 mm - 3	6,70 €
188260	260 mm - 4	8,60 €
188265	310 mm - 5	9,25 €

**Escovas de aço fig. F**

188215	10 x 100 mm	9,50 €
188220	12 x 100 mm	9,50 €
188225	15 x 100 mm	9,50 €
188230	18 x 100 mm	9,50 €
188235	22 x 100 mm	9,50 €
188240	26 x 100 mm	9,80 €



**Maço de acamar fig. H**

Código	Modelo	€/ un
188275	30 mm	20,00 €
188280	40 mm	25,00 €
188285	50 mm	33,00 €

**Abraçadeiras Twist fig. G**

Código	Dimensões ( A x C )	€/ 100
178005	05.1 x 21.6 mm	6,80 €
178008	08.0 x 25.0 mm	7,90 €
178011	11.6 x 29.8 mm	8,60 €
178015	15.0 x 33.8 mm	9,30 €
178018	18.6 x 40.0 mm	10,60 €
178024	23.6 x 45.0 mm	11,70 €

