

OMNIMEC-MARINE

accessori tecnici per sala motori - propulsioni marine
linee d'asse complete

technical accessories for marine engine room
marine propulsion system



General Brochure



OMNIMEC S.r.l.Semplificata
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www.omnimec-marine.it
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AZIENDA \ COMPANY

OMNIMEC nasce dalla passione e dalle maturate conoscenze tecnico-commerciali dei suoi professionisti, e dalla ispirazione figlia della trentennale storia di successo di OMM.

OMNIMEC è principalmente orientata ad offrire le migliori soluzioni tecniche riguardanti la propulsione marina.

Progettazione e produzione di linee d'assi complete, costruite "a regola d'arte" sono il nostro focus, ma con l'agreement di primarie aziende di produzione, **OMNIMEC** mette a disposizione una offerta di prodotti tecnici per tutta la sala macchine.

Tutti gli articoli tecnici da **OMNIMEC** offerti, su richiesta, possono essere corredati di certificazione (RINA - BUREAU VERITAS - LLOYD ed ecc).

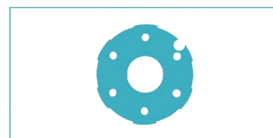
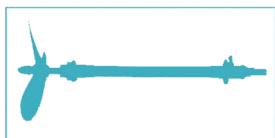
OMNIMEC's roots can be traced to the most authentic of origins, born from the passion and know-how of great professionals and their inspiring over-thirty years success story in **OMM**.

OMNIMEC is primarily oriented towards marine propulsion technical and commercial management, advisory and solutions.

Our numbers, reviews and foremost "tip of the spear" decade-long career project managers and partner engineers, constitute our reason for pride and respect within the nautical sector.

Production and design of fully certified shaft lines, flanges, propeller shafts, brackets, rudders...only constitutes a small part of our company's range of products and services.

PRODOTTI

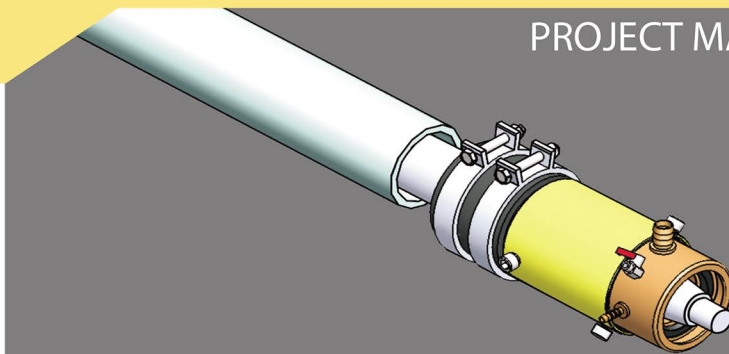


PROGETTAZIONE

OMNIMEC in qualità di professionisti della propulsione marina, collabora con diversi studi di architettura navale italiani ed esteri al fine di offrire alla propria clientela le più avanzate soluzioni tecnologiche presenti sul mercato.

OMNIMEC for being marine propulsion professionals, cooperate with various Italian and international naval architecture studios, to be able to offer to its proper clients the most advanced technological solutions present within the international market.

PROJECT MANAGEMENT



SERVICE



OMNIMEC offre un service a 360°.

Dalla produzione di linee d'asse in tempi brevi, allo stock di prodotti standard.

Dalla riparazione di eliche di ogni marca e tipo, in ben 3 location (NORD - NORD/EST - SUD ITALIA) all'installazione e riparazione in tutta Europa di linee d'asse anche di grosse dimensioni. Insomma, un service davvero completo!

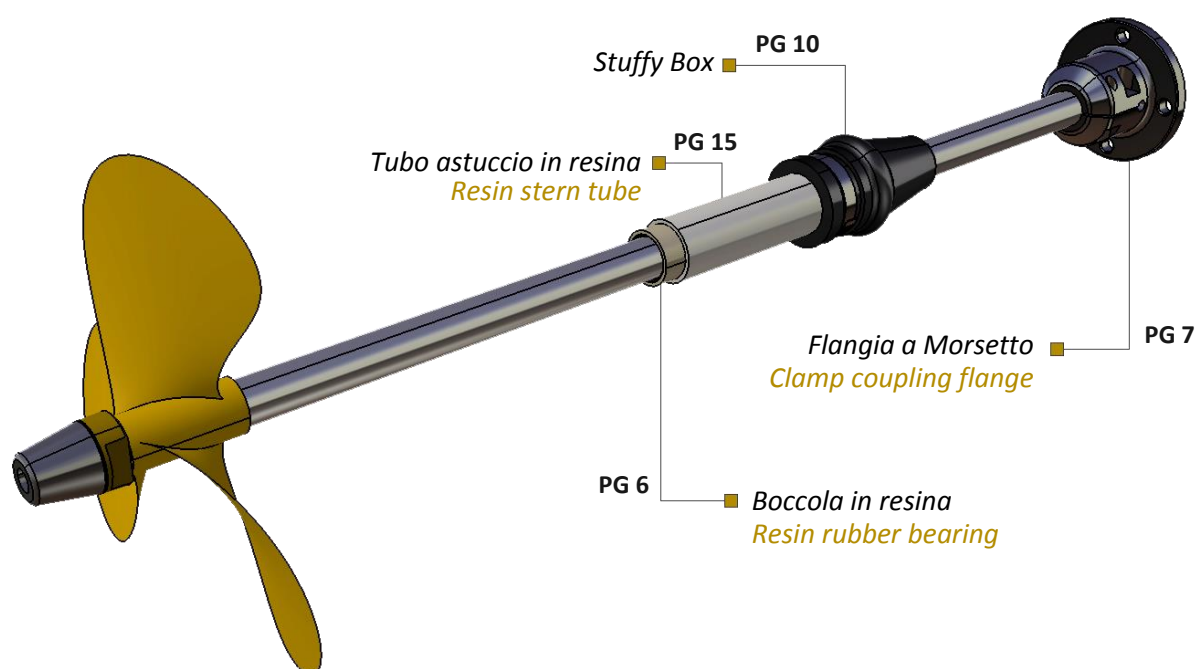
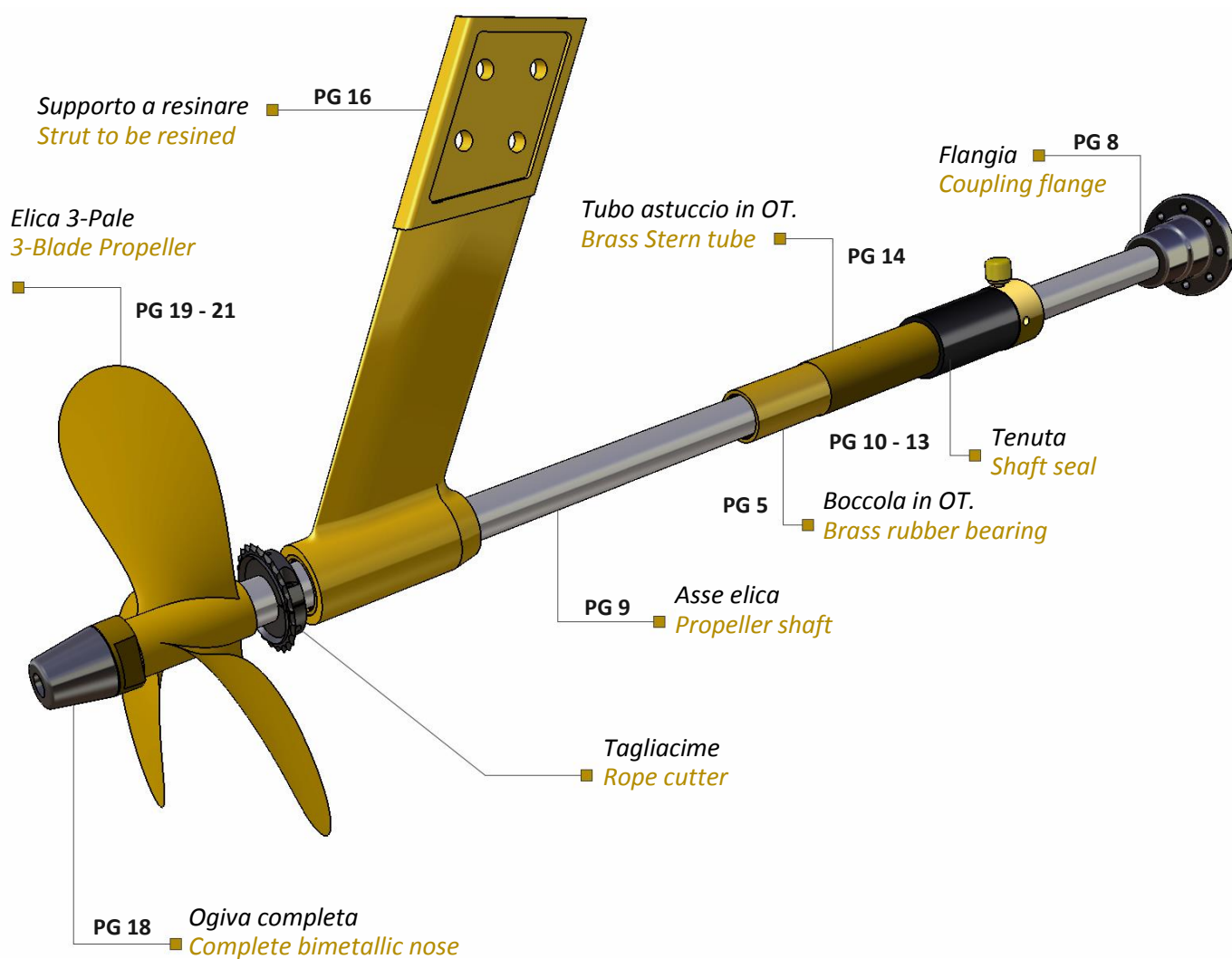
OMNIMEC offers a 360° service.

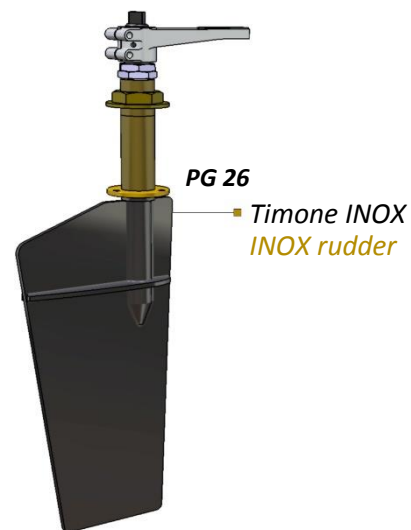
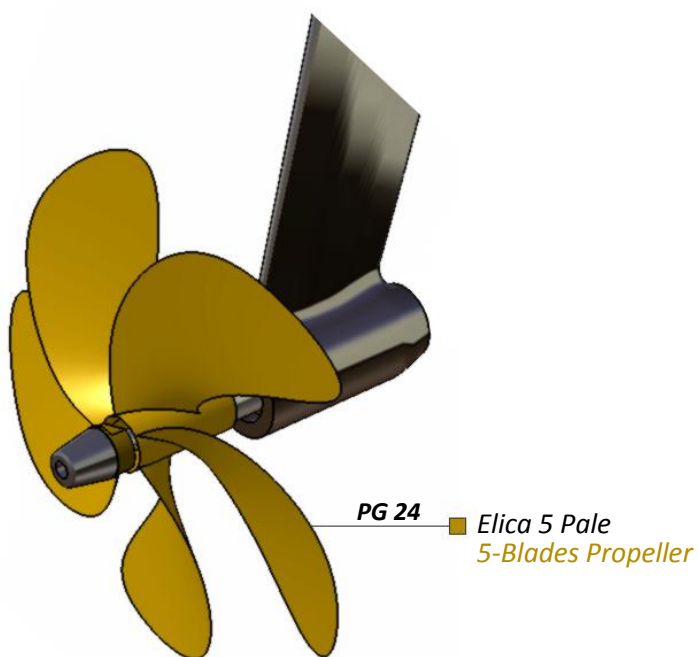
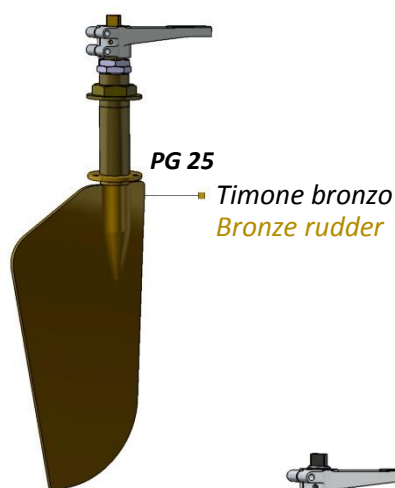
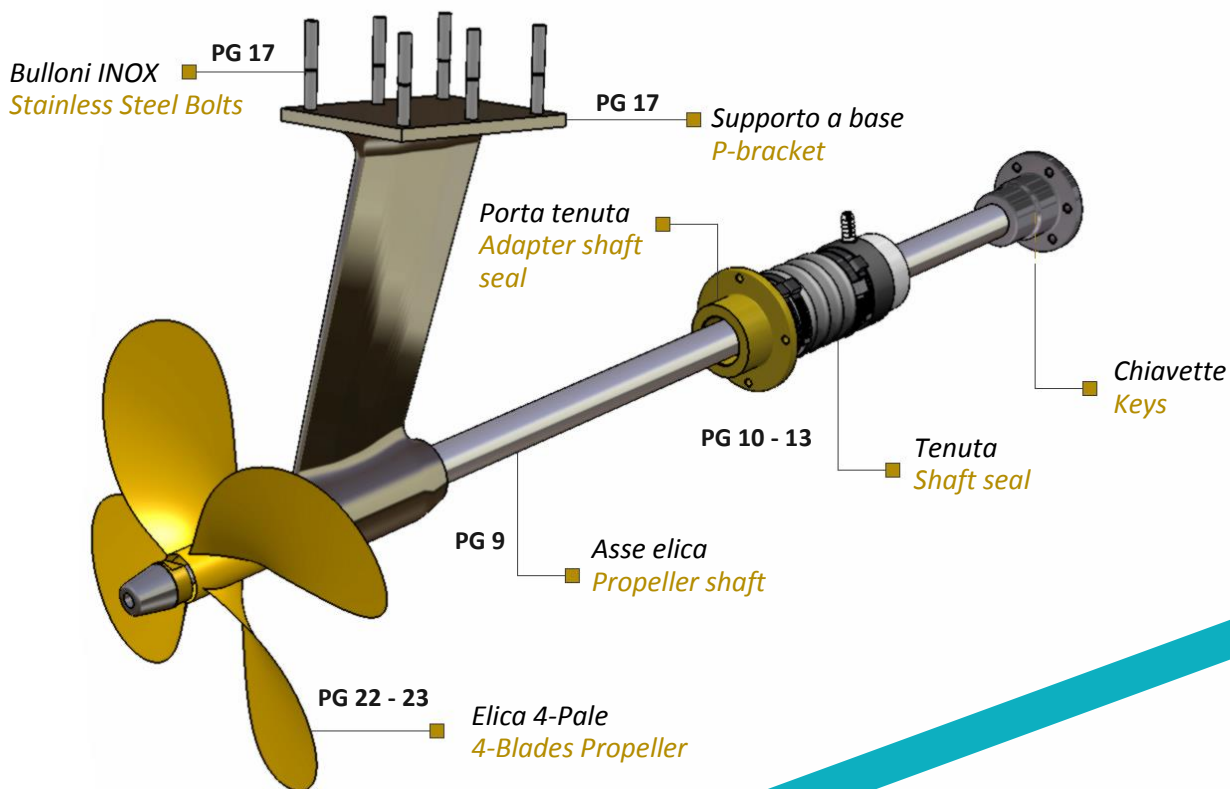
Starting with record time production shaft lines, to stock products from the catalogue.

From propellers' retrieval with no brand exception in three different locations (NORTH - NORTH/EAST - SOUTHERN ITALY) to the Europewide installation and retrieval of shaft lines, including the ones with extra-large dimensions. The essence of a really thorough service!

● PROJECT MANAGEMENT ● PRODUCTION ● DISTRIBUTION ● SUPPORT

● PROGETTAZIONE ● PRODUZIONE ● DISTRIBUZIONE ➤ INSTALLAZIONE

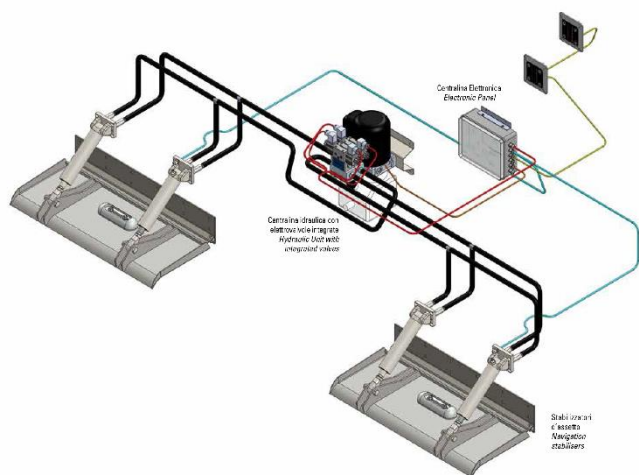




FLAPS / INTRUDER

Draghetti
MARINE DIVISION

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ISOLANTI / INSULATIONS

LINEA COMPLETA DI PRODOTTI TERMOISOLANTI E FONOASSORBENTI DENOMINATI ISOSOUND & ISOTERM.

A FULL RANGE OF THERMAL AND SOUND INSULATION PRODUCTS DENOTED RESPECTIVELY ISOSOUND & ISOTERM.

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ANODI / ANODES

ANODI SACRIFICALI DI QUALITÀ PER IMBARCAZIONI ENTROBORDO, ENTRO-FUORIBORDO E FUORIBORDO.

HIGH QUALITY ANODES SUITED FOR BOTH INBOARD, IN-OUTBOARD AND OUTBOARD CRAFTS.

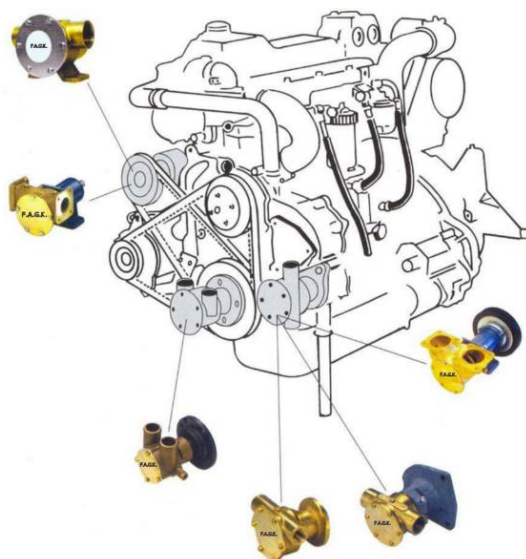
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POMPE / PUMPS

FAGIK
TECNOLOGIA IN ACQUA

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BOCCOLE A DOGHE

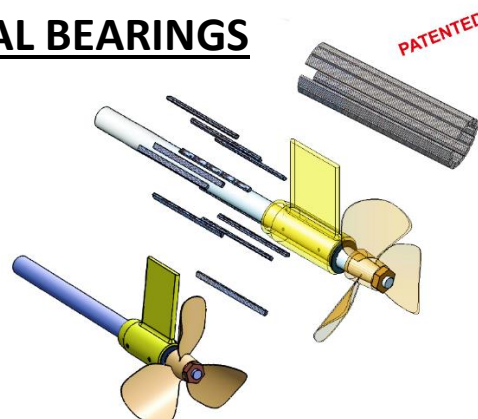


Rexmar srl

Azienda leader nei sistemi di tenuta per assi d'elica

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SPECIAL BEARINGS



TENUTE "REXMAR" / "REXMAR" SEALS



Rexmar srl

Azienda leader nei sistemi di tenuta per assi d'elica

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ASSI DI GRANDI DIMENSIONI



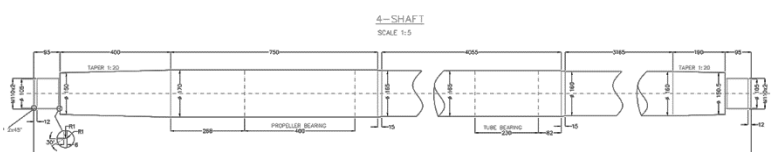
NAVALPROM

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OUTSIZED PROPELLER SHAFTS

PROGETTAZIONE, PRODUZIONE ED INSTALLAZIONE DI LINEE D'ASSI COMPLETE DA $\varnothing 110 <$

DESIGN, PRODUCTION AND INSTALLATION OF OUTSIZED ($\varnothing 110 <$) COMPLETE PROPELLER SHAFTS



RACCORDERIA / FITTING

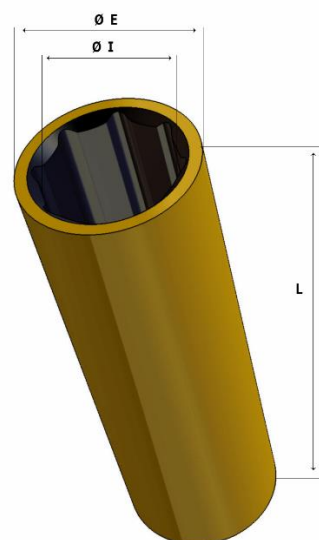
PRODOTTI DI MANIFATTURA RIGOROSAMENTE "MADE IN ITALY" PORTACANNE; PORTAGOMMA; VALVOLE; FILTRI; ED ECC...

HIGH QUALITY "MADE IN ITALY" MANUFACTURING PRODUCTS LIKE ROD HOLDERS; HOSE CONNECTIONS; VALVES; FILTERS ECC...

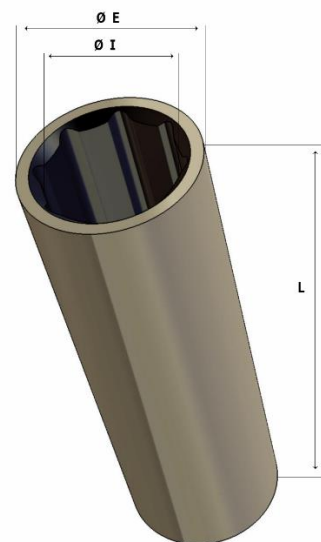
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PRODUCT CODE	PRODUCT	Ø I	x	Ø E	L
102535100		25	x	35	100
10253810100		25	x	38.10	100
102540100		25	x	40	100
10254381100		1"	x	38.10	100
103040120		30	x	40	120
10304445120		30	x	44.45	120
103045120		30	x	45	120
10317444127		1" ¼	x	44.45	127
10354762139		35	x	47.62	139
103548139		35	x	48	139
103550139		35	x	50	139
10381500152		1" ½	x	50.08	152
10405397160	<u>Boccole ottone</u>	40	x	53.97	160
104055160	Boccole realizzate con guscio in metallo e gomma nitrilica NBR70SH.	40	x	55	160
104056160		40	x	56	160
10456032180		45	x	60.32	180
104561180	La gamma proposta a catalogo è quella standard, ma, a richiesta possono essere prodotte boccole di grosse dimensioni e boccole flangiate per applicazioni speciali.	45	x	61	180
104565180		45	x	65	180
10500666200		2"	x	66.67	200
105066200		50	x	66	200
10506667200		50	x	66.67	200
105070200	Sempre a richiesta le boccole possono essere corodate da certificato.	50	x	70	200
105573220		55	x	73	220
105575220		55	x	75	220
10557620220		55	x	76.20	220
10571762220	<u>Bronze rubber bearings</u>	2" ¼	x	76.20	220
106078240	Rubber Bearings made of high quality NBR70SH nitrile rubber.	60	x	78	240
106080240		60	x	80	240
10608255240		60	x	82.55	240
10635825250	The standard product range can be found within the catalog, but outsized and other special bearings can be produced upon request.	2" ½	x	82.55	250
106583260		65	x	83	260
106585260		65	x	85	260
10658572260		65	x	85.72	260
10666857260	Certifications can be provided for all the product range, upon request.	2" 5/8	x	85.72	260
10698952280		2" ¾	x	95.25	280
107090280		70	x	90	280
10709525280		70	x	95.25	280
10751016300		75	x	101.6	300
107595300		75	x	95	300
107596300		75	x	96	300
10762101305		3"	x	101.6	305
1080100320		80	x	100	320
10801016320		80	x	101.6	320
1080102320		80	x	102	320
1085105340		85	x	105	340
1085110340		85	x	110	340
10851143340		85	x	114.3	340
1090110360		90	x	110	360
10901143360		90	x	114.3	360
1090115360		90	x	115	360



PRODUCT CODE	PRODUCT	Ø I	x	Ø E	L
112535100	<u>Boccole resina</u>	25	x	35	100
11253810100		25	x	38.10	100
112540100		25	x	40	100
113040120		30	x	40	120
11304445120		30	x	44.45	120
113045120	Boccole realizzate con materiale speciale poliammidico resistente alle temperature ma soprattutto all'assorbimento dell'umidità.	30	x	45	120
11354762139		35	x	47.62	139
113548139		35	x	48	139
113550139		35	x	47.62	139
11405397160		40	x	53.97	160
114055160	Gomma di tipo nitrilica NBR70SH .	40	x	55	160
114056160		40	x	56	160
11456032180		45	x	60.32	180
114561180		45	x	61	180
114565180		45	x	65	180
115066200	<u>Resin rubber bearings</u>	50	x	66	200
11506667200		50	x	66.67	200
115070200		50	x	70	200
115573220		55	x	73	220
115575220		55	x	75	220
11557620220	Le dimensioni indicate a catalogo sono essenzialmente quelle standard, ma a richiesta possono essere realizzate anche boccole con misure speciali, quindi <i>custom</i> .	55	x	76.20	220
116078240		60	x	78	240
116080240		60	x	80	240
11608255240		60	x	82.55	240
		60	x	82.55	240



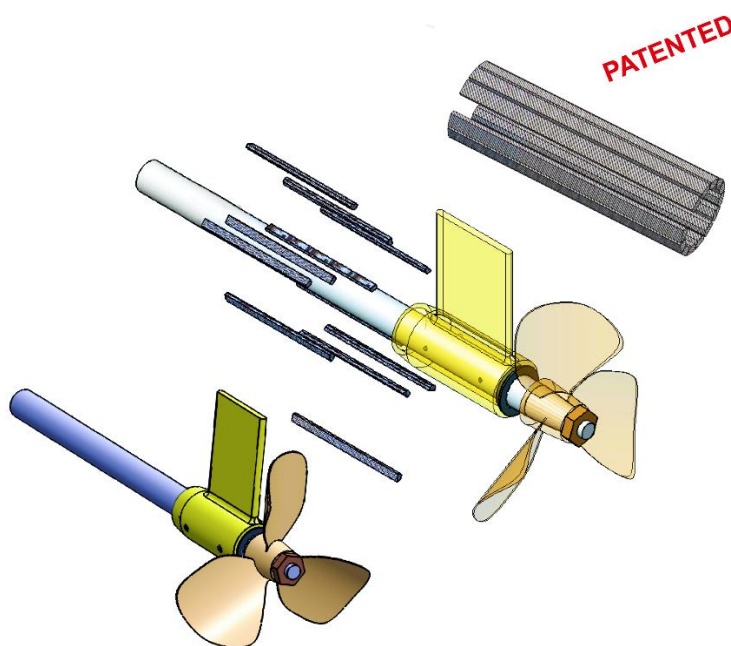
PRODUCT INFORMATION

Boccole idro-lubrificate a doghe intercambiabili

- Facile montaggio su qualsiasi astuccio;
- Facile manutenzione;
- Non crea corrosioni, ottima anche per scafi metallici;
- Bassissimo attrito, riduzione dei consumi;
- Disponibile per qualsiasi misura di astuccio;

Special hydro lubricated bearings for shaft

- Easy installation on any stern tube;
- Easy maintenance;
- No corrosion, excellent for metal hulls;
- Very low friction, reduced fuel consumption;
- Available for any stern tube size;



FLANGE A MORSETTO 2/3 FORI

2/3 HOLES CLAMP COUPLING FLANGES

PRODUCT CODE	PRODUCT	Ø Asse	x	Ø Esterno
1325100	<u>Flange a morsetto – 2/3 fori</u>	25	x	100
1325102		25	x	102
1325127		25	x	127
1330100		30	x	100
1330102		30	x	102
1330120	Flange realizzate in acciaio con rivestimento esterno zincato per aumentarne resistenza e durata.	30	x	120
1330127		30	x	127
1335102		35	x	102
1335120		35	x	120
1340120		40	x	120
	<u>Clamp coupling flanges – 2/3 holes</u>			
1435127	Steel couplings with zinc coating that provides major resistance.	35	x	127
1440127		40	x	127
1440146	May be applied to all kind of marine gear boxes (eg. VOLVO/ZF/TECNODRIVE/KANZAKI/DONG).	40	x	146
1445127		45	x	127
1445146		45	x	146
1450127		50	x	127
1450146		50	x	146

2 FORI / HOLES (MAX 100 HP)



3 FORI / HOLES (MAX 150 HP)

DADI AUTOBLOCCANTI IN ACCIAIO

STEEL SELF-LOCK NUTS

PRODUCT CODE	PRODUCT	Ø A
1225000	<u>Dadi autobloccanti in acciaio</u>	25
1230000		30
1235000		35
1240000		40
1245000		45
1250000	<u>Steel self-lock nuts for shaft</u>	50
1255000		55
1260000	Galvanized self-lock steel nuts necessary for locking the conical flanges against the propeller shaft.	60
1265000		65
1270000		70



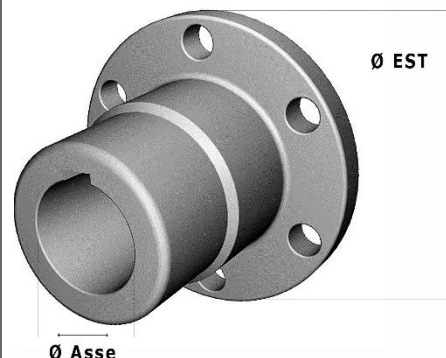
DADI AUTOBLOCCANTI IN BRONZO

BRONZE SELF-LOCK NUTS

PRODUCT CODE	PRODUCT	Ø A
1275000	<u>Dadi autobloccanti in bronzo</u>	75
1280000		80
1285000		85
1290000	Dadi autobloccanti zincati in bronzo, atti al bloccaggio delle flange coniche all'asse porta elica.	90
	<u>Bronze self-lock nuts</u>	
	Galvanized self-lock bronze nuts necessary for locking the conical flanges against the propeller shaft.	



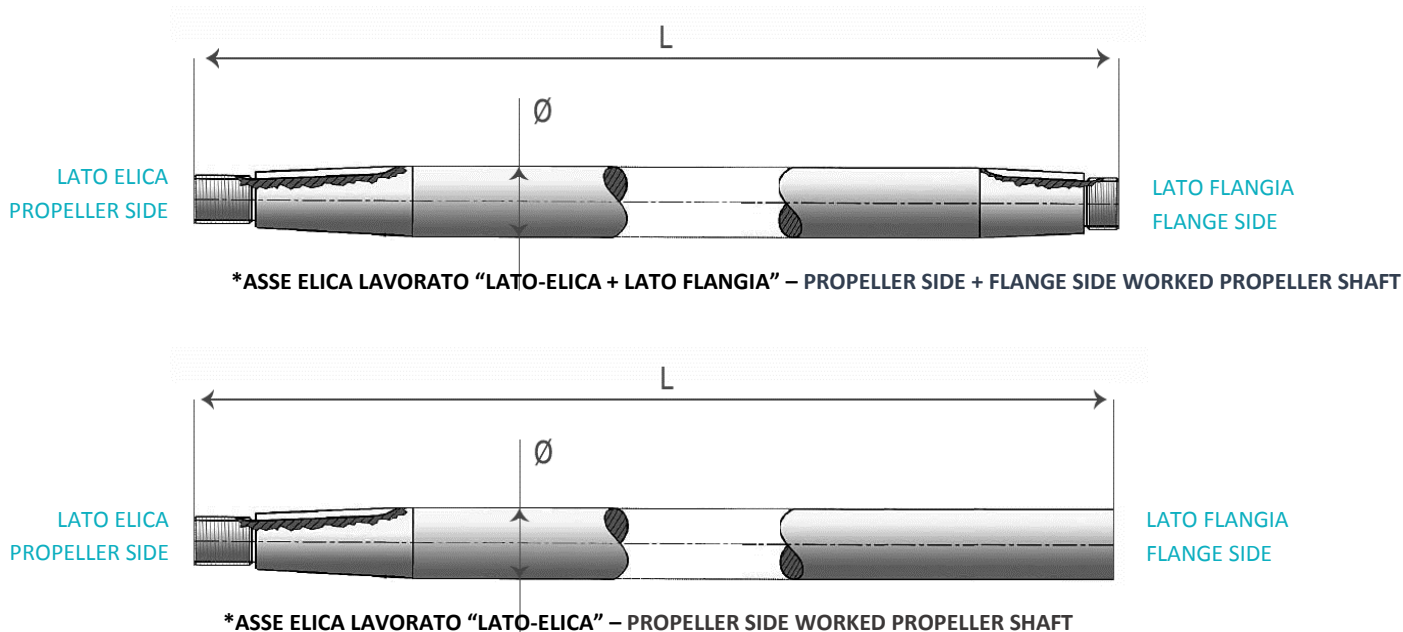
PRODUCT CODE	PRODUCT	Ø A	x	Ø EST
1525102		25	x	102
1530102		30	x	102
1530121	<u>Flange coniche</u>	30	x	121
1530127	Flange realizzate in acciaio con rivestimento esterno zincato per aumentarne la resistenza e durata.	30	x	127
1535102		35	x	102
1535121		35	x	121
1535127	Vengono realizzate per qualsiasi tipo di invertitore marino (es. VOLVO/ZF/TECNODRIVE/ KANZAKI/DONG) e per qualsiasi tipo di connessione con asse elica.	35	x	127
1540102		40	x	102
1540121		40	x	121
1540127		40	x	127
1540146		40	x	146
1545121	Pertanto, possono essere realizzate flange con conicità 1:10/1:12/1:16 così come <i>custom</i> .	45	x	121
1545127		45	x	127
1545146		45	x	146
1550121	<u>Conical coupling flanges</u>	50	x	121
1550127	Steel couplings with zinc coating that provides major resistance and durability.	50	x	127
1550146		50	x	146
1555170		55	x	170
1555185	May be applied to all kind of marine gear boxes (eg. VOLVO/ZF/TECNODRIVE/KANZAKI/DONG) and every kind of connection with propeller shaft.	55	x	185
1560146		60	x	146
1560170		60	x	170
1560185		60	x	185
1565170		65	x	170
1565185	The range of coupling taper varies from the "classic" 1:10/1:12/1:16 to <i>customized</i> .	65	x	185
1570185		70	x	185
1570205		70	x	205
1580220		80	x	220
1590240		90	x	240



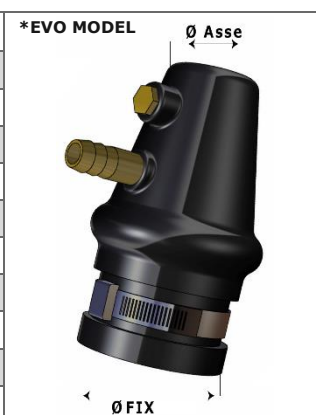
PRODUCT CODE	PRODUCT	Ø A Cil. / Con. 1:10	L (mm)	Ø Max
9955250		25	70	105
9955300	<u>Giunti Sigmadrive</u>	30	70	105
9955350	I giunti omocineticici SIGMADRIVE™ hanno dimensioni compatte e sono in grado di resistere alla spinta dell'elica senza un gruppo di cuscinetti reggispira.	35	70	105
99552540		1"	70	105
99553175		1" ¼	70	105
99553810		1" ½	70	105
9910035	Si installano semplicemente sostituendo la flangia standard che collega asse e invertitore.	35	90	130
9910040		40	90	130
9910045		45	90	130
991003810	<u>Sigmadrive CV Joints</u>	1" ½	90	130
991004445		1" ¾	90	130
9915040	SIGMADRIVE™ couplings are special CV joints able to resist to the propeller thrust without the need of thrust bearings.	40	100	130
9915045		45	100	130
9915050		50	100	130
991504445	These couplings are very compact and can transmit higher torque than other couplings with similar dimensions.	1" ¾	100	130
991505080		2"	100	130



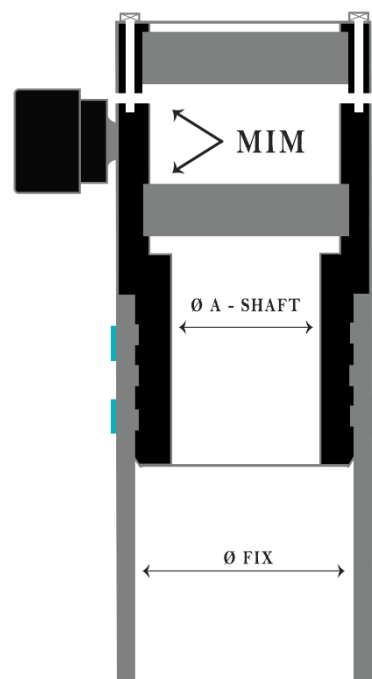
PRODUCT CODE	PRODUCT	TYPE	Ø	L (mm)	AISI 630 / V174		
1625120	<u>Assi porta elica</u> Assi elica prodotti con l'utilizzo dei migliori materiali presenti sul mercato e principalmente da fornitori italiani certificati. La produzione degli assi elica è sostanzialmente custom, in quanto dipende dalla lunghezza dei medesimi. Vengono utilizzate diverse tipologie di materiali (AISI 316 / AISI 630 / F51 o DUPLEX / AQUAMET 22) a seconda del tipo di applicazione.	AISI 630	25	1200			
1630150		AISI 630	30	1500	RESISTENZA A TRAZIONE TENSILE STRENGTH R (N / mm ²)	≥ 930	
1635150		AISI 630	35	1500			
1640180		AISI 630	40	1800			
1645200			AISI 630	45	2000		
1650200			AISI 630	50	2000	SNERVAMENTO A STRIZIONE YELD STRESS	≥ 725
1655200			AISI 630	55	2000		
1660220			AISI 630	60	2200		
1665250			AISI 630	65	2500	SNERVAMENTO A TORSIONE TORSIONAL YELD	≥ 483
1670250			AISI 630	70	2500		
1675300			AISI 630	75	3000		
1680300			AISI 630	80	3000	ALLUNGAMENTO (%) SHAFT ELONGATION (%)	≥ 16
1690300			AISI 630	90	3000		
		TYPE	Ø	L (mm)	AISI 316		
1725120	<u>Propeller shafts</u> High quality propeller shafts produced with the best materials in the market, mostly supplied from Italian certified suppliers. The propeller shaft production is mostly custom, given its dependency over particularly accurate length size. A vast range of materials (AISI 316 / AISI 630 / F51 o DUPLEX / AQUAMET 22) is used in the production process depending on the kind of application.	AISI 316	25	1200			
1730150		AISI 316	30	1500	RESISTENZA A TRAZIONE TENSILE STRENGTH R (N / mm ²)	≥ 515	
1735150		AISI 316	35	1500			
1740180		AISI 316	40	1800			
1745200			AISI 316	45	2000		
1750200			AISI 316	50	2000	SNERVAMENTO A STRIZIONE YELD STRESS	≥ 205
1755200			AISI 316	55	2000		
1760220			AISI 316	60	2200		
1765250			AISI 316	65	2500	SNERVAMENTO A TORSIONE TORSIONAL YELD	≥ 110
1770250			AISI 316	70	2500		
1775300			AISI 316	75	3000		
1780300			AISI 316	80	3000	ALLUNGAMENTO (%) SHAFT ELONGATION (%)	≥ 30
1790300			AISI 316	90	3000		



PRODUCT CODE	PRODUCT	Ø Asse / Shaft	x	Ø Fix (mm)
2025430	<u>Stuffy Box / Suffy Box EVO</u>	25	x	43
2025443		1" (25.4 mm)	x	43
2030490		30	x	49
20317549		1" ¼ (31.75 mm)	x	49
203555		35	x	55
20381060		1" ½ (38.1 mm)	x	60
204060		40	x	60
20444565		1" ¾ (44.45 mm)	x	65
204565		45	x	65
20500870		2" (50.80 mm)	x	70
205070		50	x	70
2125430	<u>Stuffy Box / EVO Model</u>	25	x	43
2125443		1" (25.4 mm)	x	43
2130490		30	x	49
21317549		1" ¼ (31.75 mm)	x	49
213555		35	x	55
21381060		1" ½ (38.1 mm)	x	60
214060		40	x	60
21444565		1" ¾ (44.45 mm)	x	65
214565		45	x	65
21500870		2" (50.80 mm)	x	70
215070		50	x	70



PRODUCT CODE	PRODUCT	Ø A - SHAFT	x	Ø Fix
2225430	<u>Tenute a grasso</u>	43	x	25
2225443		43	x	1"
2230490		49	x	30
22317549		49	x	1" ¼
223555		55	x	35
22381060	Questi ultimi sono lubrificati a grasso.	60	x	1" ½
224060		60	x	40
22444565		65	x	1" ¾
224565		65	x	45
22500870		70	x	2"
225070	Progettate e realizzate soprattutto per applicazioni laddove le acque arrivano a temperature molto basse ed il raffreddamento del sistema propulsivo ad acqua diventa poco efficace.	70	x	50
2225430		43	x	25
2225443		43	x	1"
2230490		49	x	30
22317549		49	x	1" ¼
223555	<u>Grease tank shaft seals</u>	55	x	35
22381060		60	x	1" ½
224060		60	x	40
22444565		65	x	1" ¾
224565		65	x	45
22500870	Primarily projected and actualized for low water temperature environments where the propulsion system's water cooling technology becomes inefficient.	70	x	2"
225070		70	x	50



PRODUCT CODE	PRODUCT	Ø Shaft (mm)	x	Ø Fix	L
18401016	<u>Tenute Meccaniche</u>	40	x	4"	101.60
18405008		40	x	2"	50.08
18405715		40	x	2" ¼	57.15
18406350		40	x	2" ½	63.50
18406985		40	x	2" ¾	69.85
18407620		40	x	3"	76.20
18408255		40	x	3" ¼	82.55
18408890		40	x	3" ½	88.90
18409525		40	x	3" ¾	95.25
184510160		45	x	4"	101.60
18455008	Una tipologia di tenute più vendute al mondo in particolare per applicazioni da diporto.	45	x	2"	50.08
18455715		45	x	2" ¼	57.15
18456350		45	x	2" ½	63.50
18456985		45	x	2" ¾	69.85
18457620		45	x	3"	76.20
18458255		45	x	3" ¼	82.55
18458890		45	x	3" ½	88.90
18459525		45	x	3" ¾	95.25
185010160		50	x	4"	101.60
18505008		50	x	2"	50.08
18505715	Composte da, un soffietto in gomma, applicabile direttamente al tubo astuccio e fissato mediante fascette, una parte in grafite ed un anello in acciaio inox.	50	x	2" ¼	57.15
18506350		50	x	2" ½	63.50
18506985		50	x	2" ¾	69.85
18507620		50	x	3"	76.20
18508255		50	x	3" ¼	82.55
18508890		50	x	3" ½	88.90
18509525		50	x	3" ¾	95.25
185510160		55	x	4"	101.60
18555008		55	x	2"	50.08
18555715		55	x	2" ¼	57.15
18557620	Il sistema tenuta non è altro che la perfetta aderenza della faccia grafite-anello acciaio come indicato da FIG. 1.0	55	x	3"	76.20
18558255		55	x	3" ¼	82.55
18558890		55	x	3" ½	88.90
18559525		55	x	3" ¾	95.25
186010160		60	x	4"	101.60
186010795		60	x	4" ¼	107.95
186011430		60	x	4" ½	114.30
186012065		60	x	4" ¾	120.65
186012700		60	x	5"	127.00
18608255		60	x	3" ¼	82.55
18608890	Di facile montaggio la tenuta meccanica offre il vantaggio di non avere acqua in sala motori.	60	x	3" ½	88.90
18609525		60	x	3" ¾	95.25
186510160		65	x	4"	101.60
186510795		65	x	4" ¼	107.95
186511430		65	x	4" ½	114.30
186512065		65	x	4" ¾	120.65
186512700		65	x	5"	127.00
18658255		65	x	3" ¼	82.55
18658890		65	x	3" ½	88.90





PRODUCT CODE	PRODUCT	Ø Shaft (mm)	x	Ø Fix	L
18659525	<u>Mechanical Shaft Seals</u> One of the bestselling shaft seals in the world, particularly among sailing and pleasure boats users. They are composed of a rubber bellow directly applied to the stern tube, band-fixed, containing a first part in graphite as well as an inox steel ring. The sealing system represents the perfect graphite-inox ring bond as shown in FIG. 1.0 The mechanic shaft seal has the advantage of easy mounting and the total absence of water within the engine room.	65	x	3" ¾	95.25
187010160		70	x	4"	101.60
187010795		70	x	4" ¼	107.95
187011430		70	x	4" ½	114.30
187012065		70	x	4" ¾	120.65
187012700		70	x	5"	127.00
187013335		70	x	5" ¼	133.35
187013970		70	x	5" ½	139.70
187014604		70	x	5" ¾	146.04
187015240		70	x	6"	152.40
187510160		75	x	4"	101.60
187510795		75	x	4" ¼	107.95
187511430		75	x	4" ½	114.30
187512065		75	x	4" ¾	120.65
187512700		75	x	5"	127.00
187513335		75	x	5" ¼	133.35
187513970		75	x	5" ½	139.70
187514604		75	x	5" ¾	146.04
187515240		75	x	6"	152.40
188010160		80	x	4"	101.60
188010795		80	x	4" ¼	107.95
188011430		80	x	4" ½	114.30
188012065		80	x	4" ¾	120.65
188012700		80	x	5"	127.00
188013335		80	x	5" ¼	133.35
188013970		80	x	5" ½	139.70
188014604		80	x	5" ¾	146.04
188015240		80	x	6"	152.40
188511430		85	x	4" ½	114.30
188512065		85	x	4" ¾	120.65
188512700		85	x	5"	127.00
188513335		85	x	5" ¼	133.35
188513970		85	x	5" ½	139.70
188514604		85	x	5" ¾	146.04
188515240		85	x	6"	152.40
189011430		90	x	4" ½	114.30
189012065		90	x	4" ¾	120.65
189012700		90	x	5"	127.00
189013335		90	x	5" ¼	133.35
189013970		90	x	5" ½	139.70
189014604		90	x	5" ¾	146.04
189015240		90	x	6"	152.40
189511430		95	x	4" ½	114.30
189512065		95	x	4" ¾	120.65
189512700		95	x	5"	127.00
189513335		95	x	5" ¼	133.35
189513970		95	x	5" ½	139.70
189514604		95	x	5" ¾	146.04
189515240		95	x	6"	152.40

PRODUCT CODE	PRODUCT	Ø Asse
232500		25 mm.
232540	Testate prodiere semirigide	1" (25.4 mm.)
233000		30 mm.
233175	Dette anche "premistoppa" o "premi-treccia" sono le classiche "tenute a baderna".	1"¼ (31.75 mm.)
233500		35 mm.
233810	Rappresenta il più antico sistema di tenuta affinché l'acqua non entri in sala motori.	1"½ (38.10 mm.)
234000		40 mm.
234445	Il tipo semirigido è così chiamato in quanto presenta una parte in gomma che permette un auto-allineamento del sistema asse-elica oltre ad assorbire in parte le vibrazioni provenienti dal motore.	1"¾ (44.45 mm.)
234500		45 mm.
235000		50 mm.
235008		2" (50.08 mm.)
235500		55 mm.
235715	Semi-rigid heads for shaft	2"¼ (57.15 mm.)
236000		60 mm.
236350	They can be classified among the classical "soft packing seals", representing the oldest engine room sealing system.	2"½ (63.50 mm.)
236500		65 mm.
237000		70 mm.
237500	The semi-rigid type is made of a rubber part that makes the propeller shaft system's auto-alignment possible, as long as partially assures the engine vibration absorption.	75 mm.
237620		3" (76.20 mm.)
238000		80 mm.
238500		85 mm.
239000		90 mm.



PRODUCT CODE	PRODUCT	Ø Asse
242500		25 mm.
242540	Testate prodiere rigide	1" (25.4 mm.)
243000		30 mm.
243175	Le teste prodiere rigide dette comunemente anche "premistoppa" o "premi-treccia" sono le classiche "tenute a baderna".	1"¼ (31.75 mm.)
243500		35 mm.
243810		1"½ (38.10 mm.)
244000	Rappresenta il più antico sistema di tenuta affinché l'acqua non entri in sala motori.	40 mm.
244445		1"¾ (44.45 mm.)
244500	Il sistema rigido è così denominato in quanto non presenta parti in gomma o elastiche.	45 mm.
245000		50 mm.
245008		2" (50.08 mm.)
245500	Rigid heads	55 mm.
245715		2"¼ (57.15 mm.)
246000	They can be classified among the classical "soft packing seals", representing the oldest engine room sealing system.	60 mm.
246350		2"½ (63.50 mm.)
246500		65 mm.
247000	The name "rigid system" derives from the absence of rubber or elastic parts within the component.	70 mm.
247500		75 mm.
247620		3" (76.20 mm.)
248000		80 mm.
248500		85 mm.
249000		90 mm.



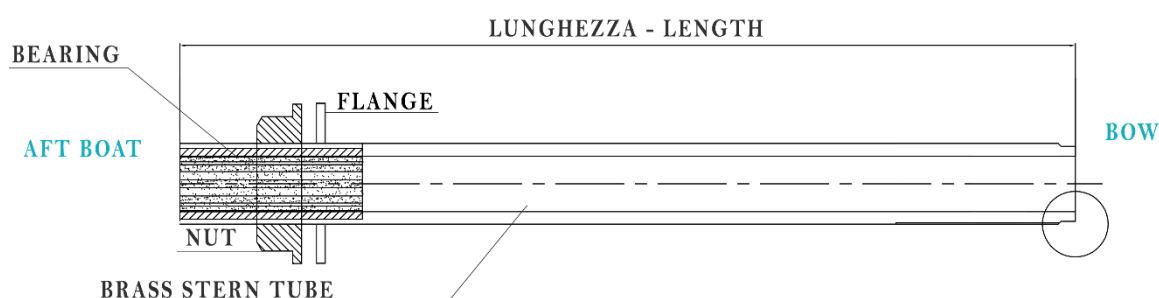
PRODUCT CODE	PRODUCT	Ø Asse (mm)	Dimensioni	L (mm)
30254131	<u>Tubo astuccio in ottone</u>	25	31 x 41	CUSTOM
30304836		30	36 x 46	CUSTOM
30355140		35	42 x 51	CUSTOM
30405748		40	48 x 57	CUSTOM
30456652		45	52 x 66	CUSTOM
30558570	Il tubo astuccio in ottone (OT58/OT63) è l'organo di connessione tra testa prodiera e testa poppiera.	50	57 x 71	CUSTOM
30608570		60	75 x 85	CUSTOM
30658570		65	75 x 85	CUSTOM
307010590		70	90 x 105	CUSTOM
307510590		75	90 x 105	CUSTOM
308010590	<u>Brass stern tube</u>	80	90 x 105	CUSTOM
3085118100		85	100 x 118	CUSTOM
3090118100		90	100 x 118	CUSTOM



31254131	<u>Tubo astuccio in ottone + Boccola</u>	25	31 x 41	CUSTOM
31304836		30	36 x 46	CUSTOM
31355140		35	42 x 51	CUSTOM
31405748		40	48 x 57	CUSTOM
31456652		45	52 x 66	CUSTOM
31558570	Il tubo astuccio con boccola viene venduto a lunghezza custom e filettato da un solo lato in quanto nel lato opposto viene inserita una boccola quale ulteriore sostegno dell'asse elica.	50	57 x 71	CUSTOM
31608570		60	75 x 85	CUSTOM
31658570		65	75 x 85	CUSTOM
317010590		70	90 x 105	CUSTOM
317510590		75	90 x 105	CUSTOM
318010590	<u>Brass stern tube + Rubber bearing</u>	80	90 x 105	CUSTOM
3185118100		85	100 x 118	CUSTOM
3190118100		90	100 x 118	CUSTOM



332500	<u>Tubo astuccio in ottone + TP</u>	25	31 x 41	CUSTOM
333000		30	36 x 46	CUSTOM
333500		35	42 x 51	CUSTOM
334000		40	48 x 57	CUSTOM
334500		45	52 x 66	CUSTOM
335000	Il tubo astuccio con TP incorporata viene venduto a lunghezza custom , filettato dal lato "prodiero" mentre il lato "poppiero" è fornito di boccola e flangitura esterna che permette il fissaggio direttamente in chiglia.	50	57 x 71	CUSTOM
336000		60	75 x 85	CUSTOM
336500		65	75 x 85	CUSTOM
337000		70	90 x 105	CUSTOM
337500		75	90 x 105	CUSTOM
338000	<u>Brass stern tubes + Heads</u>	80	90 x 105	CUSTOM
338500		85	100 x 118	CUSTOM
339000		90	100 x 118	CUSTOM



PRODUCT CODE	PRODUCT	Ø Asse (mm)	Dimensioni			L (mm)
2825120	Astucci GRP	25	35	x	43	1200
2830120	Il tubo astuccio GRP (<i>vetroresina</i>) viene venduto a lunghezza standard pari a 1200 mm.	30	40	x	49	1200
2835120		35	47	x	55	1200
2840120		40	52	x	60	1200
2845120		45	56	x	65	1200
2850120	Questa tipologia offre un miglior assemblaggio con la resina dell'imbarcazione; oltre al vantaggio di essere più leggera ed un ottimo organo di connessione con lo Stuffy Box.	50	60	x	70	1200
2860120		60	70	x	85	1200
2870120		70	90	x	105	1200
		GRP Stern tubes for shaft				
	The GRP (<i>fibreglass</i>) stern tube comes in a 1200 mm standard size. This kind of stern tube offers a better assembly with the craft's resin; besides the minor weight and the better connection with the Stuffy Box.					



2925120	<u>Astucci GRP + Boccola</u>	25	35 x 43	1200
2930120	Questa versione viene offerta con una boccola lubrificata dello stesso materiale posizionata a poppa.	30	40 x 49	1200
2935120		35	47 x 55	1200
2940120		40	52 x 60	1200
2945120		45	56 x 65	1200
2950120	<u>GRP Stern tubes + Rubber bearing</u>	50	60 x 70	1200
2960120	This version comes with a same material lubricated rubber bearing positioned on the stern side.	60	70 x 85	1200
2970120		70	90 x 105	1200



TESTA POPPIERA A FLANGIA MOBILE

ADJUSTABLE FLANGE ASTERN HEAD

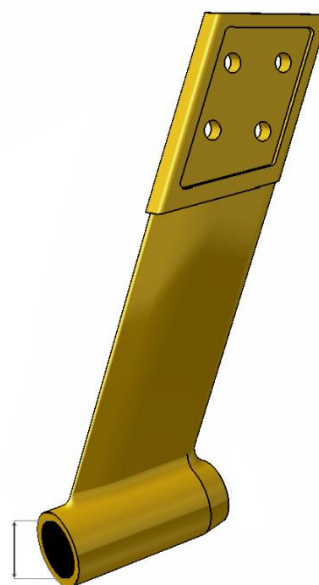
PRODUCT CODE	PRODUCT	Ø Asse
352500	<u>Testa Poppiera a flangia mobile</u>	25 mm.
352540		1" (25.4 mm.)
353000		30 mm.
353175		1"¼ (31.75 mm.)
353500	Le teste poppiere a flangia mobile possono essere installate su qualsiasi tipo di imbarcazione.	35 mm.
353810		1"½ (38.10 mm.)
354000		40 mm.
354445		1"¾ (44.45 mm.)
354500	La flangia di forma ovale presenta due fori per il fissaggio a carena.	45 mm.
355000		50 mm.
355008		2" (50.08 mm.)
355500		55 mm.
355715	<u>Astern Head with adjustable flange</u>	2"¼ (57.15 mm.)
356000		60 mm.
356350		2"½ (63.50 mm.)
356500		65 mm.
357000	The oval-shaped flange has two holes for excellent hull attachment.	70 mm.
357500		75 mm.
357620		3" (76.20 mm.)
358000		80 mm.
358500		85 mm.
359000		90 mm.



PRODUCT CODE	PRODUCT	Ø Asse
342500	<u>Testa poppiera a flangia fissa</u>	25 mm.
342540		1" (25.4 mm.)
343000		30 mm.
343175		1"¼ (31.75 mm.)
343500		35 mm.
343810	Le teste poppiere a flangia fissa normalmente vengono installate su imbarcazioni in legno.	1"½ (38.10 mm.)
344000		40 mm.
344445		1"¾ (44.45 mm.)
344500	La flangia di forma ovale presenta due fori per il fissaggio a carena.	45 mm.
345000		50 mm.
345008		2" (50.08 mm.)
	<u>Fixed flange astern head</u>	
	The fixed flange astern heads are usually installed within the range of wooden crafts.	
	The oval-shaped flange has two holes for excellent hull attachment.	
	The head includes a hydro-lubrified bushing screw-fixed to the main body for an easy replacement and ordinary maintenance.	

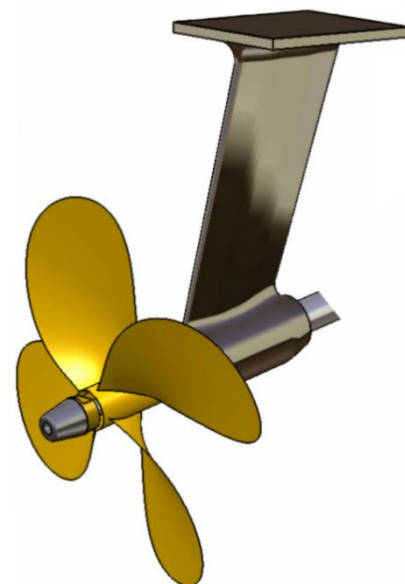


PRODUCT CODE	PRODUCT	Ø Asse
3625400	<u>Supporti a resinare</u>	25 mm.
36254400		1" (25.4 mm.)
3630400		30 mm.
363175400		1"¼ (31.75 mm.)
3635450		35 mm.
363810450	Il supporto asse-elica a resinare, detto anche "VTR" è la versione più utilizzata nelle applicazioni barche a vela.	1"½ (38.10 mm.)
3640450		40 mm.
364445550		1"¾ (44.45 mm.)
3645550	Lo stello è parzialmente allegato nella resina e viene <i>inbullonato</i> in sentina.	45 mm.
365008550		2" (50.08 mm.)
3650550		50 mm.
3655670		55 mm.
365715670	<u>Resin brackets for shaft</u>	2"¾ (57.15 mm.)
3660670		60 mm.
366350670	The strut to be resined, also known as "VTR" is the most utilized version within the sailing boats installations.	2"½ (63.50 mm.)
3665820		65 mm.
3670820		70 mm.
3675880	The rod is partially enclosed in the resin and fixed in the bilge through iron bolts.	75 mm.
367620880		3" (76.20 mm.)
3680880		80 mm.
	The product is usually sold within its standard dimensions, but custom sized struts can also be ordered.	



Ø ASSE - SHAFT

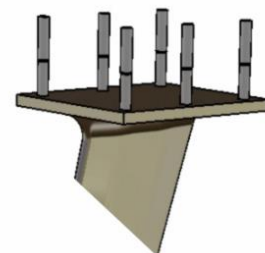
PRODUCT CODE	PRODUCT	Ø Asse
372500	<u>Supporti a base</u>	25 mm.
372540	Il supporto asse-elica a base è un articolo sostanzialmente " custom ".	1" (25.4 mm.)
373000		30 mm.
373175		1"¼ (31.75 mm.)
373500		35 mm.
373810		1"½ (38.10 mm.)
374000	Diverse sono le variabili in un supporto a base; altezza, inclinazione della botticella (<i>inclinazione asse-elica</i>) dove è alloggiata una boccola idro-lubrificata, inclinazione dello stelo (<i>inclinazione carena</i>).	40 mm.
374445		1"¾ (44.45 mm.)
374500		45 mm.
375000		2" (50.08 mm.)
375008		50 mm.
375500	Quest'ultimo dato, può essere pari a 0 (zero) laddove nel progetto il supporto viene identificato come " diritto ".	55 mm.
375715		2"¼ (57.15 mm.)
376000		60 mm.
376350		2"½ (63.50 mm.)
376500		65 mm.
377000	<u>Base brackets for shaft / Bronze</u>	70 mm.
377500		75 mm.
377620		3" (76.20 mm.)
378000		80 mm.
378500		85 mm.
379000	The base P-Brackets are substantially custom sized products.	90 mm.
	They are made of various variables like height and α (<i>propeller shaft</i>) & β (<i>hull</i>) inclination.	
	This last variable's value might be NULL in case the P-Bracket is set to be "FLAT".	
	The base P-Brackets get fixed to the boat's main body through iron bolts.	



BULLONI PER SUPPORTI

STAINLESS STEEL BOLTS FOR BASE P-BRACKETS

PRODUCT CODE	PRODUCT	Ø Dimensione	M (mm)
3808100	<u>Bulloni completi in acciaio per supporti a base</u>	25	8 x 100
3810100		30 – 35	10 x 100
3810120		30 – 35	10 x 120
3812120		40 – 45 – 50	12 x 120
3812150		40 – 45 – 50	12 x 150
3816150	Tutto prodotto in acciaio INOX 316.	60 – 70 – 80	16 x 150
3820150		85 – 90	20 x 150
	<u>Complete iron bolts for base brackets</u>		
	The bolt's product package comprises washer & twin nuts.		
	Everything made of INOX 316 STEEL.		



PRODUCT CODE	PRODUCT	Ø A - SHAFT (mm)	M (mm)
52251615	Ogiva complete Questo articolo viene venduto completo di anodo sacrificale e rondella in acciaio inox di fermo. La ogiva ha la funzione di serrare l'elica all'asse porta-elica. L'ogiva è composta da una parte in bronzo denominata "ghiera" che ha una parte esagonale in testa ed una filettatura posteriore.	25	16 x 1.5
52251815		25	18 x 1.5
52252015		25	20 x 1.5
52301815		30	18 x 1.5
52302015		30	20 x 1.5
52352015		35	20 x 1.5
52352420		35	24 x 2.0
52402415		40	24 x 1.5
52402420		40	24 x 2.0
52452715		45	27 x 1.5
52453320	Importante è fare molta attenzione al tipo di filetto, ovvero al "passo" (vedi tabella)	45	33 x 2.0
52502715		50	27 x 1.5
52503630		50	36 x 3.0
52554030		55	40 x 3.0
52603420		60	34 x 2.0
52604230		60	42 x 3.0
52604530		60	45 x 3.0
52654530		65	45 x 3.0
52704530		70	45 x 3.0
52754530		75	45 x 3.0
52805630	Before placing an order it is important to know the requested thread type (following tables)	80	56 x 3.0
52856430		85	64 x 3.0



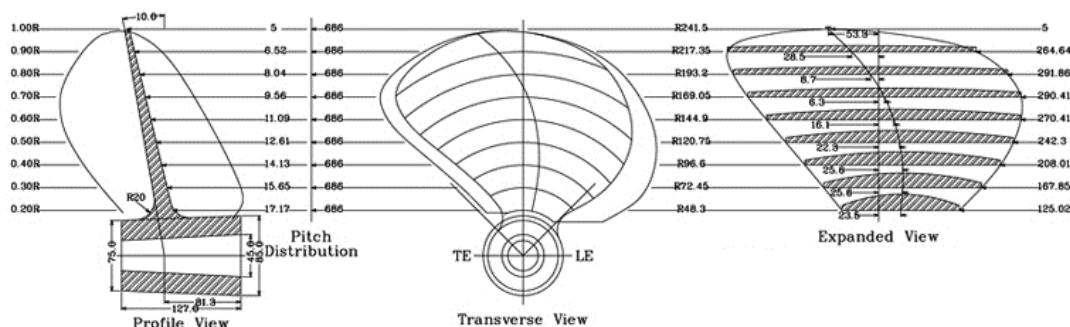
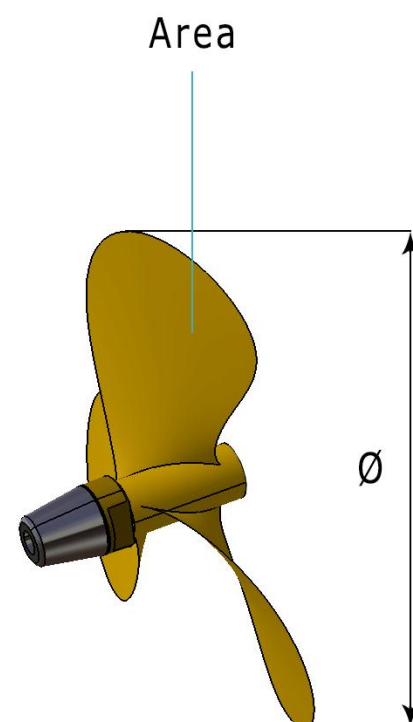
ANODI IN ZINCO	
ZINC ANODES	
CODE	Ø A - SHAFT
525225	25
525230	30
525235	35
525240	40
525245	45
525250	50
525255	55
525260	60
52526575	65
52526575	70
52526575	75
525280100	80
525280100	85
525280100	90
525280100	100

GHIERA IN OTTONE		
HEXAGONAL BRASS PART		
CODE	Ø A	PASSO - PITCH
52532516	25	16 x 1,5
52532518	25	18 x 1,5
52532520	25	20 x 1,5
52533018	30	18 x 1,5
52533020	30	20 x 1,5
52533520	35	20 x 1,5
52533524	35	24 x 2,0
52534024	40	24 x 1,5
525340242	40	45 x 2,0
52534527	45	27 x 1,5
52534533	45	33 x 2,0
52535027	50	27 x 1,5
52535036	50	36 x 3,0
52535540	55	40 x 3,0
52536034	60	34 x 2,0
52536042	60	42 x 3,0
52536045	60	45 x 3,0
52536545	65	45 x 3,0
52537045	70	45 x 3,0
52537545	75	45 x 3,0
52538056	80	56 x 3,0
52538564	85	64 x 3,0
52539064	90	64 x 3,0

RONDELLA DI SICUREZZA	
SAFETY WASHER	
CODE	Ø A - SHAFT
525425	25
525430	30
525435	35
525440	40
525445	45
525450	50
525455	55
525460	60
52546575	65
52546575	70
52546575	75
525480100	80
525480100	85
525480100	90

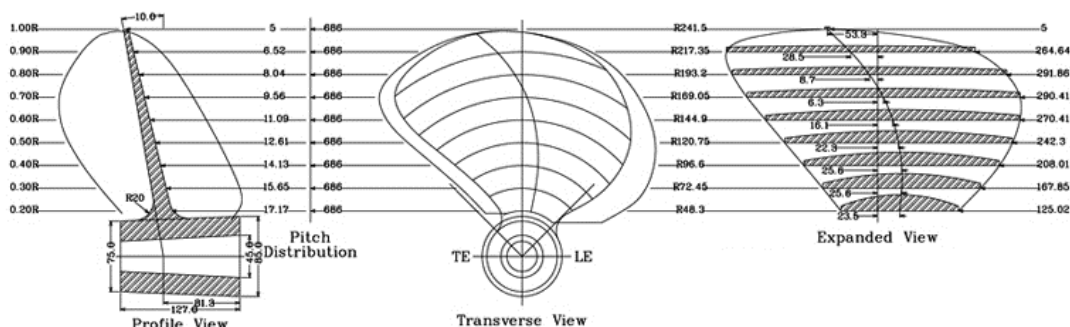
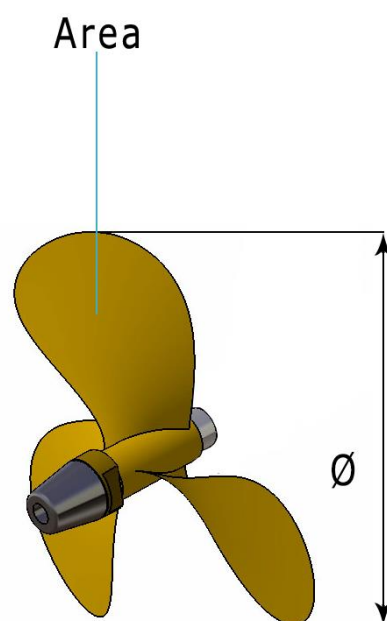
PRODUCT CODE	PRODUCT	Ø Area	Rotation
4035211	Eliche 3 Pale 52% Eliche di produzione estera per motori entro bordo. Tutte le eliche sono certificate una ad una e corredate di certificato di bilanciamento statico e dinamico. La produzione è principalmente orientata sul modello a pale fisse - 3, 4 e 5 pale - con diversa area di sviluppo a seconda delle performance richieste dalle imbarcazioni. Il materiale utilizzato è principalmente il bronzo-manganese ed il bronzo-alluminio.	11" (279 mm.)	Destra / Right
4035212		12" (305 mm.)	Destra / Right
4035213		13" (330 mm.)	Destra / Right
4035214		14" (356 mm.)	Destra / Right
4035215		15" (381 mm.)	Destra / Right
4035216		16" (406 mm.)	Destra / Right
4035217		17" (432 mm.)	Destra / Right
4035218		18" (457 mm.)	Destra / Right
4035219		19" (482 mm.)	Destra / Right
4035220		20" (508 mm.)	Destra / Right
4035221		21" (533 mm.)	Destra / Right
4035222		22" (559 mm.)	Destra / Right
4035223		23" (584 mm.)	Destra / Right
4035224		24" (610 mm.)	Destra / Right
4035225		25" (635 mm.)	Destra / Right
4035226		26" (660 mm.)	Destra / Right
4035227		27" (685 mm.)	Destra / Right
4035228		28" (710 mm.)	Destra / Right
4035229		29" (735 mm.)	Destra / Right
4035230		30" (760 mm.)	Destra / Right

4135229	52% 3-Blade Propeller Foreign production propellers for inboard engines. The production range is fully certified and supplied with static and dynamic balancing certificate included. The production is mainly oriented towards the 3-4-5 fixed-blade propellers with different development areas depending of the requested performances. The construction material is mainly manganese-bronze and aluminum-bronze alloy.	11" (279 mm.)	Sinistra / Left
4135230		12" (305 mm.)	Sinistra / Left
4135211		13" (330 mm.)	Sinistra / Left
4135212		14" (356 mm.)	Sinistra / Left
4135213		15" (381 mm.)	Sinistra / Left
4135214		16" (406 mm.)	Sinistra / Left
4135215		17" (432 mm.)	Sinistra / Left
4135216		18" (457 mm.)	Sinistra / Left
4135217		19" (482 mm.)	Sinistra / Left
4135218		20" (508 mm.)	Sinistra / Left
4135219		21" (533 mm.)	Sinistra / Left
4135220		22" (559 mm.)	Sinistra / Left
4135221		23" (584 mm.)	Sinistra / Left
4135222		24" (610 mm.)	Sinistra / Left
4135223		25" (635 mm.)	Sinistra / Left
4135224		26" (660 mm.)	Sinistra / Left
4135225		27" (685 mm.)	Sinistra / Left
4135226		28" (710 mm.)	Sinistra / Left
4135227		29" (735 mm.)	Sinistra / Left
4135228		30" (760 mm.)	Sinistra / Left



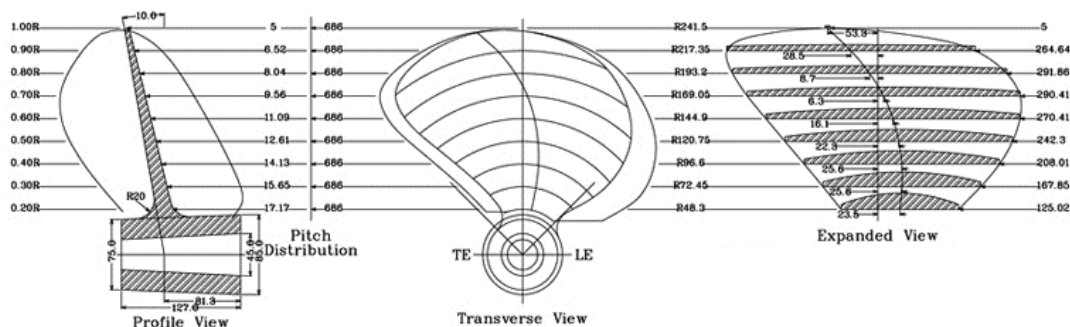
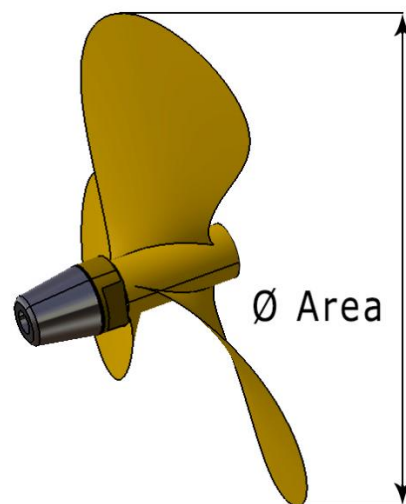
PRODUCT CODE	PRODUCT	Ø Area	Rotation
4235511	Eliche 3 Pale 55% Eliche di produzione estera per motori entrobordo. Tutte le eliche sono certificate una ad una e corredate di certificato di bilanciamento statico e dinamico. La produzione è principalmente orientata sul modello a pale fisse - 3, 4 e 5 pale - con diversa area di sviluppo a seconda delle performance richieste dalle imbarcazioni. Il materiale utilizzato è principalmente il bronzo-manganese ed il bronzo-alluminio.	11" (279 mm.)	Destra / Right
4235512		12" (305 mm.)	Destra / Right
4235513		13" (330 mm.)	Destra / Right
4235514		14" (356 mm.)	Destra / Right
4235515		15" (381 mm.)	Destra / Right
4235516		16" (406 mm.)	Destra / Right
4235517		17" (432 mm.)	Destra / Right
4235518		18" (457 mm.)	Destra / Right
4235519		19" (482 mm.)	Destra / Right
4235520		20" (508 mm.)	Destra / Right
4235521		21" (533 mm.)	Destra / Right
4235522		22" (559 mm.)	Destra / Right
4235523		23" (584 mm.)	Destra / Right
4235524		24" (610 mm.)	Destra / Right
4235525		25" (635 mm.)	Destra / Right
4235526		26" (660 mm.)	Destra / Right
4235527		27" (685 mm.)	Destra / Right
4235528		28" (710 mm.)	Destra / Right
4235529		29" (735 mm.)	Destra / Right
4235530		30" (760 mm.)	Destra / Right

4335511	55% 3-Blade Propeller Foreign production propellers for inboard engines. The production range is fully certified and supplied with static and dynamic balancing certificate included. The production is mainly oriented towards the 3-4-5 fixed-blade propellers with different development areas depending of the requested performances. The construction material is mainly manganese-bronze and aluminum-bronze alloy.	11" (279 mm.)	Sinistra / Left
43355113		12" (305 mm.)	Sinistra / Left
4335512		13" (330 mm.)	Sinistra / Left
4335514		14" (356 mm.)	Sinistra / Left
4335515		15" (381 mm.)	Sinistra / Left
4335516		16" (406 mm.)	Sinistra / Left
4335517		17" (432 mm.)	Sinistra / Left
4335518		18" (457 mm.)	Sinistra / Left
4335519		19" (482 mm.)	Sinistra / Left
4335520		20" (508 mm.)	Sinistra / Left
4335521		21" (533 mm.)	Sinistra / Left
4335522		22" (559 mm.)	Sinistra / Left
4335523		23" (584 mm.)	Sinistra / Left
4335524		24" (610 mm.)	Sinistra / Left
4335525		25" (635 mm.)	Sinistra / Left
4335526		26" (660 mm.)	Sinistra / Left
4335527		27" (685 mm.)	Sinistra / Left
4335528		28" (710 mm.)	Sinistra / Left
4335529		29" (735 mm.)	Sinistra / Left
4335530		30" (760 mm.)	Sinistra / Left

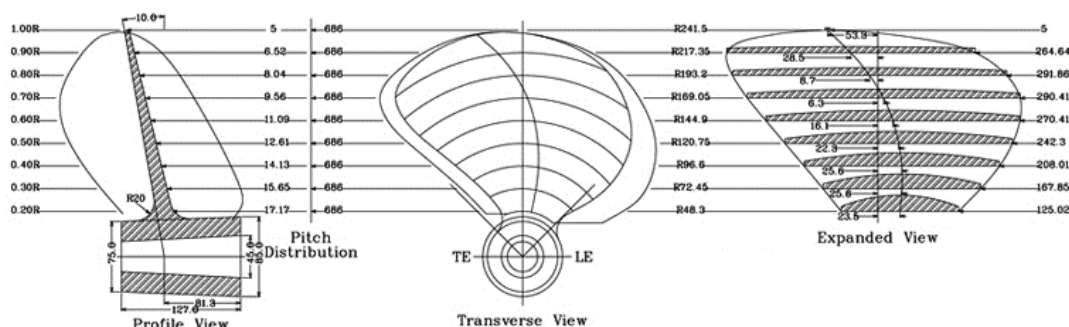
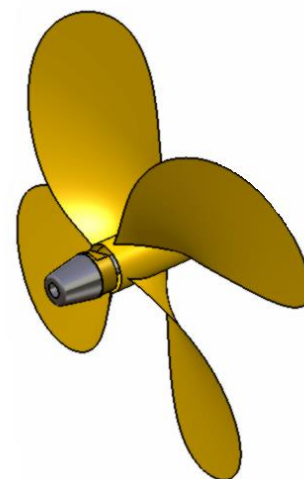


PRODUCT CODE	PRODUCT	Ø Area	Rotation
4437311	Eliche 3 Pale 73% Eliche di produzione estera per motori entro bordo. Tutte le eliche sono certificate una ad una e corredate di certificato di bilanciamento statico e dinamico. La produzione è principalmente orientata sul modello a pale fisse - 3, 4 e 5 pale - con diversa area di sviluppo a seconda delle performance richieste dalle imbarcazioni. Il materiale utilizzato è principalmente il bronzo-manganese ed il bronzo-alluminio.	11" (279 mm.)	Destra / Right
4437312		12" (305 mm.)	Destra / Right
4437313		13" (330 mm.)	Destra / Right
4437314		14" (356 mm.)	Destra / Right
4437315		15" (381 mm.)	Destra / Right
4437316		16" (406 mm.)	Destra / Right
4437317		17" (432 mm.)	Destra / Right
4437318		18" (457 mm.)	Destra / Right
4437319		19" (482 mm.)	Destra / Right
4437320		20" (508 mm.)	Destra / Right
4437321		21" (533 mm.)	Destra / Right
4437322		22" (559 mm.)	Destra / Right
4437323		23" (584 mm.)	Destra / Right
4437324		24" (610 mm.)	Destra / Right
4437325		25" (635 mm.)	Destra / Right
4437326		26" (660 mm.)	Destra / Right
4437327		27" (685 mm.)	Destra / Right
4437328		28" (710 mm.)	Destra / Right
4437329		29" (735 mm.)	Destra / Right
4437330		30" (760 mm.)	Destra / Right

4537311	73% 3-Blade Propeller Foreign production propellers for inboard engines. The production range is fully certified and supplied with static and dynamic balancing certificate included. The production is mainly oriented towards the 3-4-5 fixed-blade propellers with different development areas depending of the requested performances. The construction material is mainly manganese-bronze and aluminum-bronze alloy.	11" (279 mm.)	Sinistra / Left
4537312		12" (305 mm.)	Sinistra / Left
4537313		13" (330 mm.)	Sinistra / Left
4537314		14" (356 mm.)	Sinistra / Left
4537315		15" (381 mm.)	Sinistra / Left
4537316		16" (406 mm.)	Sinistra / Left
4537317		17" (432 mm.)	Sinistra / Left
4537318		18" (457 mm.)	Sinistra / Left
4537319		19" (482 mm.)	Sinistra / Left
4537320		20" (508 mm.)	Sinistra / Left
4537321		21" (533 mm.)	Sinistra / Left
4537322		22" (559 mm.)	Sinistra / Left
4537323		23" (584 mm.)	Sinistra / Left
4537324		24" (610 mm.)	Sinistra / Left
4537325		25" (635 mm.)	Sinistra / Left
4537326		26" (660 mm.)	Sinistra / Left
4537327		27" (685 mm.)	Sinistra / Left
4537328		28" (710 mm.)	Sinistra / Left
4537329		29" (735 mm.)	Sinistra / Left
4537330		30" (760 mm.)	Sinistra / Left

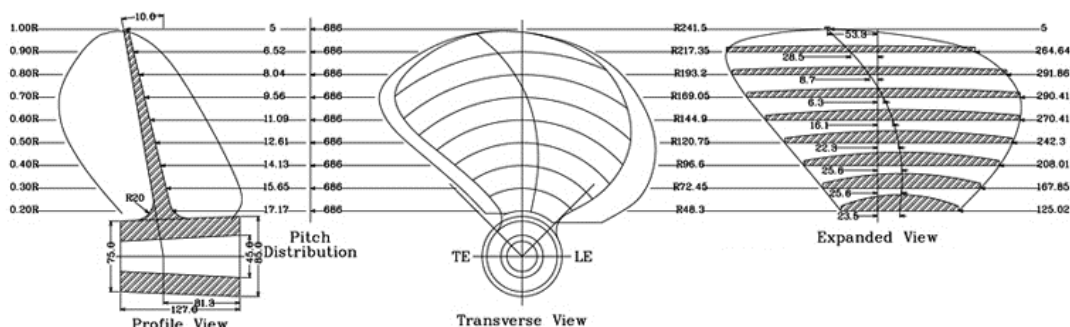
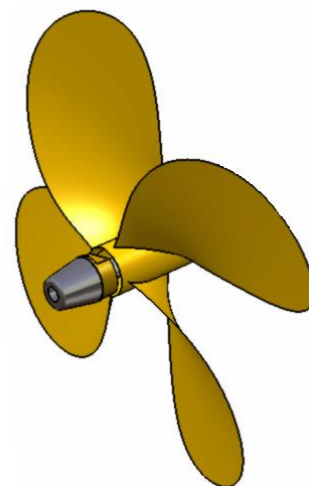


4746911	69% 4-Blade Propeller	11" (279 mm.)	Sinistra / Left
4746912		12" (305 mm.)	Sinistra / Left
4746913		13" (330 mm.)	Sinistra / Left
4746914		14" (356 mm.)	Sinistra / Left
4746915	Foreign production propellers for inboard engines.	15" (381 mm.)	Sinistra / Left
4746916		16" (406 mm.)	Sinistra / Left
4746917		17" (432 mm.)	Sinistra / Left
4746918		18" (457 mm.)	Sinistra / Left
4746919	The production range is fully certified and supplied with static and dynamic balancing certificate included.	19" (482 mm.)	Sinistra / Left
4746920		20" (508 mm.)	Sinistra / Left
4746921		21" (533 mm.)	Sinistra / Left
4746922		22" (559 mm.)	Sinistra / Left
4746923	The production is mainly oriented towards the 3-4-5 fixed-blade propellers with different development areas depending of the requested performances.	23" (584 mm.)	Sinistra / Left
4746924		24" (610 mm.)	Sinistra / Left
4746925		25" (635 mm.)	Sinistra / Left
4746926		26" (660 mm.)	Sinistra / Left
4746927	The construction material is mainly manganese-bronze and aluminum-bronze alloy.	27" (685 mm.)	Sinistra / Left
4746928		28" (710 mm.)	Sinistra / Left
4746929		29" (735 mm.)	Sinistra / Left
4746930		30" (760 mm.)	Sinistra / Left



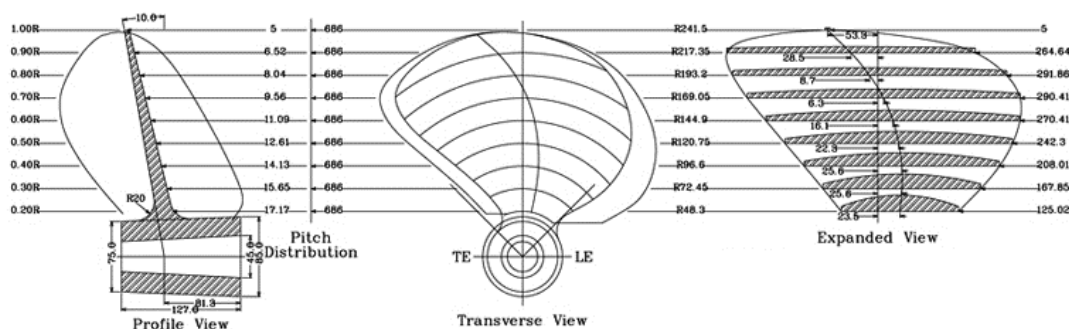
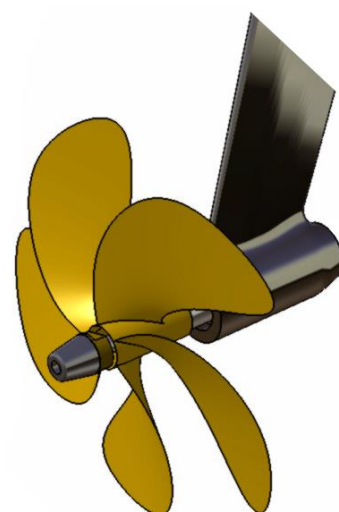
PRODUCT CODE	PRODUCT	Ø Area	Rotation
4848511	Eliche 4 Pale 85% Eliche di produzione estera per motori entro bordo. Tutte le eliche sono certificate una ad una e corredate di certificato di bilanciamento statico e dinamico. La produzione è principalmente orientata sul modello a pale fisse – 3, 4 e 5 pale – con diversa area di sviluppo a seconda delle performance richieste dalle imbarcazioni. Il materiale utilizzato è principalmente il bronzo-manganese ed il bronzo-alluminio.	11" (279 mm.)	Destra / Right
4848512		12" (305 mm.)	Destra / Right
4848513		13" (330 mm.)	Destra / Right
4848514		14" (356 mm.)	Destra / Right
4848515		15" (381 mm.)	Destra / Right
4848516		16" (406 mm.)	Destra / Right
4848517		17" (432 mm.)	Destra / Right
4848518		18" (457 mm.)	Destra / Right
4848519		19" (482 mm.)	Destra / Right
4848520		20" (508 mm.)	Destra / Right
4848521		21" (533 mm.)	Destra / Right
4848522		22" (559 mm.)	Destra / Right
4848523		23" (584 mm.)	Destra / Right
4848524		24" (610 mm.)	Destra / Right
4848525		25" (635 mm.)	Destra / Right
4848526		26" (660 mm.)	Destra / Right
4848527		27" (685 mm.)	Destra / Right
4848528		28" (710 mm.)	Destra / Right
4848529		29" (735 mm.)	Destra / Right
4848530		30" (760 mm.)	Destra / Right

4948511	85% 4-Blade Propeller Foreign production propellers for inboard engines. The production range is fully certified and supplied with static and dynamic balancing certificate included. The production is mainly oriented towards the 3-4-5 fixed-blade propellers with different development areas depending of the requested performances. The construction material is mainly manganese-bronze and aluminum-bronze alloy.	11" (279 mm.)	Sinistra / Left
4948512		12" (305 mm.)	Sinistra / Left
4948513		13" (330 mm.)	Sinistra / Left
4948514		14" (356 mm.)	Sinistra / Left
4948515		15" (381 mm.)	Sinistra / Left
4948516		16" (406 mm.)	Sinistra / Left
4948517		17" (432 mm.)	Sinistra / Left
4948518		18" (457 mm.)	Sinistra / Left
4948519		19" (482 mm.)	Sinistra / Left
4948520		20" (508 mm.)	Sinistra / Left
4948521		21" (533 mm.)	Sinistra / Left
4948522		22" (559 mm.)	Sinistra / Left
4948523		23" (584 mm.)	Sinistra / Left
4948524		24" (610 mm.)	Sinistra / Left
4948525		25" (635 mm.)	Sinistra / Left
4948526		26" (660 mm.)	Sinistra / Left
4948527		27" (685 mm.)	Sinistra / Left
4948528		28" (710 mm.)	Sinistra / Left
4948529		29" (735 mm.)	Sinistra / Left
4948530		30" (760 mm.)	Sinistra / Left



PRODUCT CODE	PRODUCT	Ø Area	Rotation
50510611	Eliche 5 Pale 106% Eliche di produzione estera per motori entroboro. Tutte le eliche sono certificate una ad una e corredate di certificato di bilanciamento statico e dinamico. La produzione è principalmente orientata sul modello a pale fisse - 3, 4 e 5 pale - con diversa area di sviluppo a seconda delle performance richieste dalle imbarcazioni. Il materiale utilizzato è principalmente il bronzo-manganese ed il bronzo-alluminio.	11" (279 mm.)	Destra / Right
50510612		12" (305 mm.)	Destra / Right
50510613		13" (330 mm.)	Destra / Right
50510614		14" (356 mm.)	Destra / Right
50510615		15" (381 mm.)	Destra / Right
50510616		16" (406 mm.)	Destra / Right
50510617		17" (432 mm.)	Destra / Right
50510618		18" (457 mm.)	Destra / Right
50510619		19" (482 mm.)	Destra / Right
50510620		20" (508 mm.)	Destra / Right
50510621		21" (533 mm.)	Destra / Right
50510622		22" (559 mm.)	Destra / Right
50510623		23" (584 mm.)	Destra / Right
50510624		24" (610 mm.)	Destra / Right
50510625		25" (635 mm.)	Destra / Right
50510626		26" (660 mm.)	Destra / Right
50510627		27" (685 mm.)	Destra / Right
50510628		28" (710 mm.)	Destra / Right
50510629		29" (735 mm.)	Destra / Right
50510630		30" (760 mm.)	Destra / Right

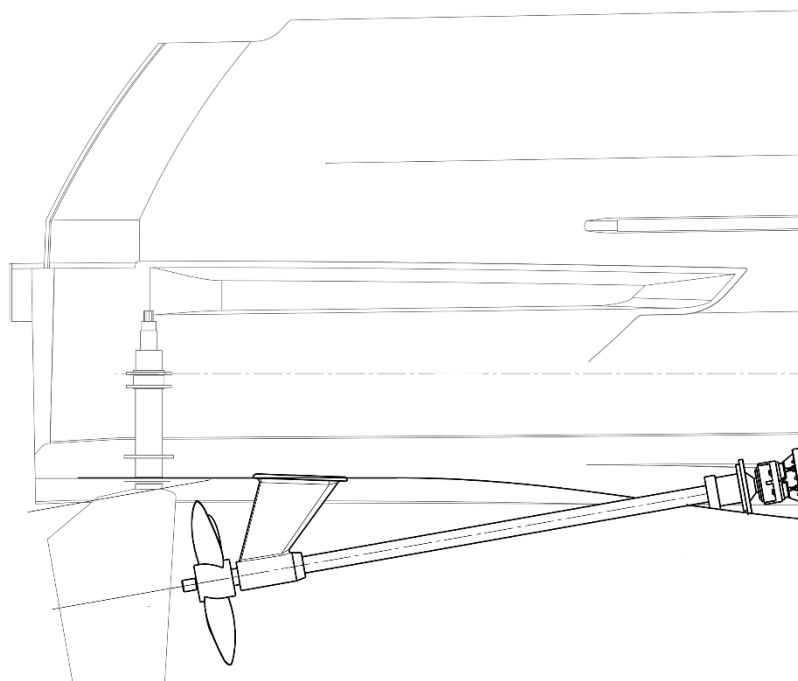
51510611	106% 5-Blade Propeller Foreign production propellers for inboard engines. The production range is fully certified and supplied with static and dynamic balancing certificate included. The production is mainly oriented towards the 3-4-5 fixed-blade propellers with different development areas depending of the requested performances. The construction material is mainly manganese-bronze and aluminum-bronze alloy.	11" (279 mm.)	Sinistra / Left
51510612		12" (305 mm.)	Sinistra / Left
51510613		13" (330 mm.)	Sinistra / Left
51510614		14" (356 mm.)	Sinistra / Left
51510615		15" (381 mm.)	Sinistra / Left
51510616		16" (406 mm.)	Sinistra / Left
51510617		17" (432 mm.)	Sinistra / Left
51510618		18" (457 mm.)	Sinistra / Left
51510619		19" (482 mm.)	Sinistra / Left
51510620		20" (508 mm.)	Sinistra / Left
51510621		21" (533 mm.)	Sinistra / Left
51510622		22" (559 mm.)	Sinistra / Left
51510623		23" (584 mm.)	Sinistra / Left
51510624		24" (610 mm.)	Sinistra / Left
51510625		25" (635 mm.)	Sinistra / Left
51510626		26" (660 mm.)	Sinistra / Left
51510627		27" (685 mm.)	Sinistra / Left
51510628		28" (710 mm.)	Sinistra / Left
51510629		29" (735 mm.)	Sinistra / Left
51510630		30" (760 mm.)	Sinistra / Left



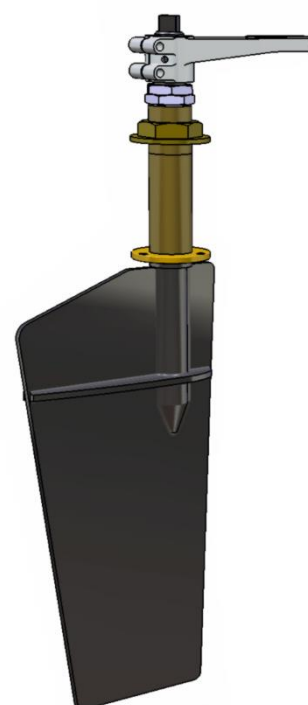
PRODUCT CODE	PRODUCT	Losca (°)	Ø Asta (mm)	Area (dm ²)
5335011	<u>Timoni bronzo</u> Alla luce di anni di esperienza, ecco la nuova serie di timoni OMNIMEC™ pensati e disegnati dopo un attento studio sulle tipologie di timoni esistenti sul mercato.	0	35	11
533505		0	35	5
533506		0	35	6
533507		0	35	7
53351511		15	35	11
5335155		15	35	5
5335156		15	35	6
5335157		15	35	7
5440010	La serie in bronzo sono timoni standard in quanto fusioni, anche se su richiesta possono essere prodotti timoni in bronzo custom.	0	40	10
5440011		0	40	11
5440013		0	40	13
5440015		0	40	15
54401510		15	40	10
54401511		15	40	11
54401513		15	40	13
54401515		15	40	15
	<u>Bronze rudders</u> After years of experience within the nautical sector, we are proud to present the new rudder series branded OMNIMEC™ projected and designed after a deep study of the range of products already present in the market.	Cast. (°)	Ø Asta (mm)	Area (dm ²)
5540010		0	40	10
5540011		0	40	11
5540013		0	40	13
5540015		0	40	15
55401210		12	40	10
55401211		12	40	11
55401213		12	40	13
55401215		12	40	15

The "bronze" series is mostly made of standard sized rudders, even though custom sized products can also be made on request.

The product range comprises two main applications: "stern tube" and "transom" (castle).



PRODUCT CODE	PRODUCT	Losca (°)	Ø Asta (mm)	Area (dm ²)
5640010	<u>Timone INOX</u> Alla luce di anni di esperienza, ecco la nuova serie di timoni OMNIMEC™ pensati e disegnati dopo un attento studio sulle tipologie di timoni esistenti sul mercato. La serie INOX a differenza della serie in Bronzo offre il vantaggio che asta-timone e pala-timone possono essere personalizzati a seconda delle esigenze del cliente ma soprattutto all'efficienza del timone stesso. Il catalogo presenta 3 opzioni di diametri di asta-timone ma anche questo aspetto è personalizzabile. Due i tipi fondamentali di applicazioni, ovvero "a losca" o "a specchio di poppa" (castello).	0	40	10
5640011		0	40	11
5640013		0	40	13
5640015		0	40	15
5640016		0	40	16
56401510		15	40	10
56401511		15	40	11
56401513		15	40	13
56401515		15	40	15
56401516		15	40	16
		Cast. (°)	Ø Asta (mm)	Area (dm ²)
5740010		0	40	10
5740011		0	40	11
5740013		0	40	13
5740015		0	40	15
5740016		0	40	16
57401210		12	40	10
57401211		12	40	11
57401213		12	40	13
57401215		12	40	15
57401216		12	40	16
		Losca (°)	Ø Asta (mm)	Area (dm ²)
5850018	<u>INOX Rudder</u>	0	50	18
5850020		0	50	20
58501518		15	50	18
58501520		15	50	20
		Cast. (°)	Ø Asta (mm)	Area (dm ²)
5950018	After years of experience within the nautical sector, we are proud to present the new rudder series branded OMNIMEC™ projected and designed after a deep study of the range of products already present in the market. The "INOX" series unlike the "bronze" one may be entirely customized. This catalog presents 3 main shaft diameter size products although they can also be customized upon request. The product range comprises two main applications: "stern tube" and "transom" (castle).	0	50	18
5950020		0	50	20
59501218		12	50	18
59501220		12	50	20
		Losca (°)	Ø Asta (mm)	Area (dm ²)
606001524		0 – 15	60	24
606001525		0 – 15	60	25
		Cast. (°)	Ø Asta (mm)	Area (dm ²)
6160024		0	60	24
6160025		0	60	25
61601524		15	60	24
61601525		15	60	25



La nostra azienda è specializzata nella costruzione, installazione ed il design di sistemi complete di propulsione marina, sia per le imbarcazioni di porto che quelli commerciali.

Il nostro ufficio tecnico ha la capacità di creare ed adattare ogni bisogno specifico dei nostri clienti.

Nel nostro workshop vengono costruite *(di qualsiasi tipologia e dimensione)*:

Linee d'asse, astucci, supporti asse-elica, boccole, timoni, losche timoni ed ecc.

Il nostro team di esperti è largamente specializzato ad effettuare l'installazione di linee d'assi, boccole di ogni tipo, pine stabilizzatrici, bow thrusters, ed ecc, così come ad effettuare ogni tipo di intervento e manutenzione.

Our Company is specialized in the design, construction and installation of complete propulsion and maneuvering systems for both leisure and commercial vessels.

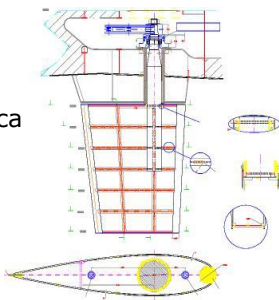
Our technical office is able to adapt to the specific needs and demands of our clients.

At our workshop we build entirely custom-made pieces: propeller shafts, stern-tubes, shaft brackets, bushings, rudders, rudder carriers etc.

Our team of specialized mechanics is equipped with workshop vans and capable of performing the installations of shaft lines, steering gears, stabilizers plants, bow thruster etc. on board as well as offering to our customers a variety of general mechanical interventions and refitting.

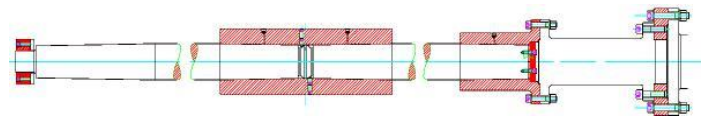
GAMMA DEI PRODOTTI

- Assi elica
- Giunti
- Asta timone e boccola
- Supp. asse elica
- Astuccio
- Losca timone
- Pala ed asta timone



PRODUCT RANGE

- Propeller shafts
- Coupling joints
- Rudder shafts and propeller shaft bushings
- Propeller shaft brackets
- Stern tubes
- Rudder trunks and carriers
- Rudder blades and rudder shafts

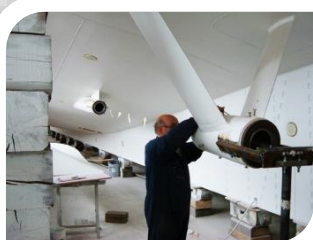
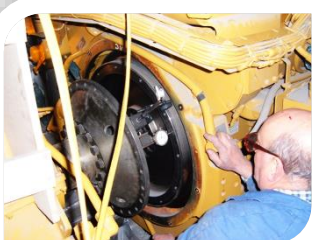


GAMMA DEI SERVIZI

- Installazione di line d'assi.
- Alineamento e posizionamento di motori ed invertitori.
- Installazione di astucci.
- Lavorazione in loco, allineamento boccole ed assi.
- Installazione di eliche di manovra e pinne stabilizzatrici.
- Refitting di sistemi meccanici.

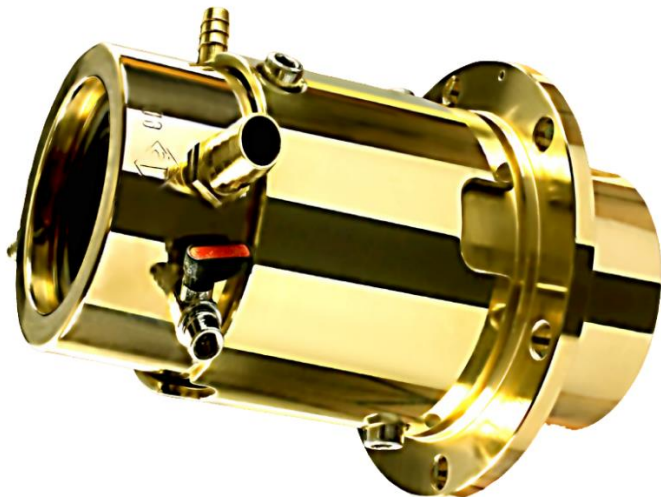
SERVICES AT THE SHIPYARD

- Installations of shaft lines on new constructions / ref.
- Alignment and positioning of engines/gearboxes
- Installation of steering gears
- On-site machining, line boring and facing
- Installation of bow thrusters, stabilizers plants
- Refitting of mechanical systems



IDROTENUTA TS

SOSTITUISCE PERMISTOPPA E TENUTE
MECCANICHE



VERITAS APPROVAL 09714/AO/BV

RINA APPROVAL MAC/217/94

MONTAGGIO FACILE

Anche sugli astucci esistenti.

Appositi innesti adattatori ne consentono il facile montaggio
sugli astucci esistenti.

Gli ingombri sono minimi ed è fornita anche completa di
astuccio. L'installazione è semplicissima e non richiede
alcuna regolazione.



Sequenza di montaggio presso i cantieri Azimut-Benetti*



HYDRAULIC SEAL TS

REPLACES STUFFING-BOXES AND FACE
SEALS

- L'UNICA SICURA
- L'UNICA STAGNA AL 100%
- UTILIZZATA DAI CANTIERI LEADER
- DAI NATANTI ALLE NAVI
- GARANZIA 5 ANNI

- UNIQUELY SAFE
- UNIQUELY 100% DRY
- USED BY LEADING SHIP YARDS
- DIRECTLY FROM CRAFT TO SHIPS
- 5 YEAR WARRANTY

EUROPEAN PATENT N. 0770017

USA PATENT N. 5.795.198

EASY TO INSTALL

The **H. Seal TS** may be installed on any existing stern tube
without any modification.

For newer boats the stern tube may be included along
with the **H. Seal TS**.

The installation is very easy and no adjustments are
required.



Installation sequence in Azimut-Benetti ship yard*

UTILIZZATA DAI CANTIERI LEADER

FINCANTIERI

AZIMUT-BINETTI

FERRETTI

C.R.N

CANADOS

CRANCHI

SCIALLINO

RIZZARDI

USED BY LEADING SHIP YARDS

- **NON SI BRUCIA SE SI OTTURA LA PRESA A MARE**
- **NON DIPENDE DA ESILI SOFFIETTI E/O MANICOTTI DI GOMMA**
- **RESISTE A DISACCOPIAMENTO E/O DECENTRAMENTO DELL'ASSE**
- **RESISTE ALLA SABBIA E DENTI DI CANE**
- **SICURA ANCHE IN ASSENZA DI CONTROLLI E MANUTENZIONE**
- **5 ANNI DI GARANZIA RINNOVABILI**

L'UNICA SICURA – sia in caso di eventi accidentali, sia in assenza di controlli e/o manutenzione.

L'Idrotenuta Ts è l'unica con requisiti tecnici che garantiscono sicurezza totale in mare. I sistemi tradizionali (tenute meccaniche, tenute ad acqua) sono pericolose poiché richiedono controlli e periodiche sostituzioni, non tollerano numerosi eventi accidentali a cui sono sottoposte le barche; un'otturazione della presa a mare di raffreddamento è sempre possibile...quante tenute fuse!; incidenti alla linea d'asse sono sempre imminenti (*colpi, tronchi semi-sommersi, disaccoppiamenti, navigazione con boccole usurate o bruciate, cedimenti di un supporto motore*). Soffietti in gomma strappati e/o sfasciati sono all'ordine del giorno (*denti di cane che lacerano dall'interno la gomma, invecchiamento, boccola che saldandosi all'asse sforza sul manicotto sfasciandolo*).

L'Idrotenuta Ts rimane invece sempre sicura, anche in assenza di controlli e manutenzioni (es. navigazione senza olio).

L'UNICA STAGNA AL 100% – resistente a sabbia e denti di cane.

L'Idrotenuta Ts è l'unica che garantisce una tenuta stagna al 100%. I sistemi tradizionali (tenute meccaniche e ad acqua) hanno un principio di funzionamento che richiede un certo passaggio d'acqua. Subito non si percepisce nulla in quanto il calore sprigionato dagli sfregamenti è tale per cui l'acqua evapora istantaneamente all'interno della sentina; rapidamente le evaporazioni diventano spruzzi, soprattutto in presenza di acque sabbiose e denti di cane (piste di scorrimento rigate, para-acqua distrutto dai denti di cane).



Sentina **senza**
Idrotenuta TS

Bilge **without**
H. Seal TS

ECOLOGICA – no perdite d'olio in mare.

Ponendo il serbatoio dell'olio dell'Idrotenuta Ts sotto la linea di galleggiamento, la pressione del mare è maggiore di quella dell'olio per cui quando si arriva all'usura degli anelli di tenuta (*dopo migliaia di ore*), si verifica tutt' al più un trasudamento d'acqua verso l'interno del serbatoio e non riversamenti verso il mare.

DOES NOT BURN IN CASE OF OBSTRUCTION
NO DELICATE RUBBER SLEEVE WHICH MAY BE DESTROYED
RESISTANT TO ACCIDENTAL DISCONNECTION AND
MISSALIGNMENT WITH THE PROPELLER SHAFT
RESISTANT TO SAND AND INCRUSTATIONS
RELIABLE EVEN IN ABSENCE OF MAINTENANCE
RENEWABLE 5 YEAR WARRANTY

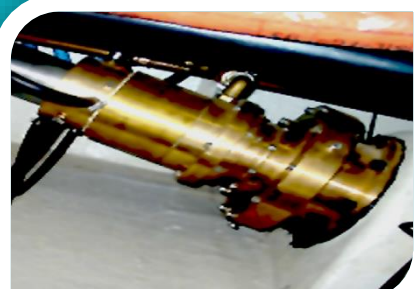
UNIQUELY SAFE – even in the case of incidents or absence of maintenance.

The H. seal Ts is the only product available that is able to guarantee absolute safety. Traditional systems (face and water seals) require constant checks and regular maintenance (substitution components); moreover they don't support numerous incidental events: in a boat an obstruction of a water cooling is always possible (many seals completely burned...), boat incidents involving the propeller shaft are always possible (many seals completely destroyed by an axial movement of the shaft, or by anomalous vibrations of the shaft...), in a boat marine incrustations are always possible (many rubber sleeves destroyed by incrustations on the shaft... or by a water seal bearing stick on the shaft).

The H. Seal Ts is always safe, even if there is no oil and grease (incidents or absence of maintenance...).

UNIQUELY DRY – resistant to sandy waters.

The H. Seal Ts is unique and always dry. Traditional systems (face and water seals) require a little leakage of water. Often during the first working hours you cannot see that leakage because water is immediately vaporised in the bilge (frictions are very important in that seals); but rapidly by the action of the sand and marine incrustations the vaporisation change into a sprinkling of water. The H. Seal Ts is the unique seal that preserves the engines from a corrosive environment.



Sentina **con**
Idrotenuta TS

Bilge **with**
H. Seal TS

ECOLOGICAL – no oil leaks into the sea.

The oil reservoir of the H. Seal is positioned under the water sea level; so the pressure of the water is higher than that of the oil: when oil seals become holds (after many thousands of working hours) it happens just a little passage of the water in the oil, and no a leakage of oil into the sea.

FUNZIONAMENTO

Brevetto: circolazione d’olio, doppio stadio stagno, bronzina auto-centrante.

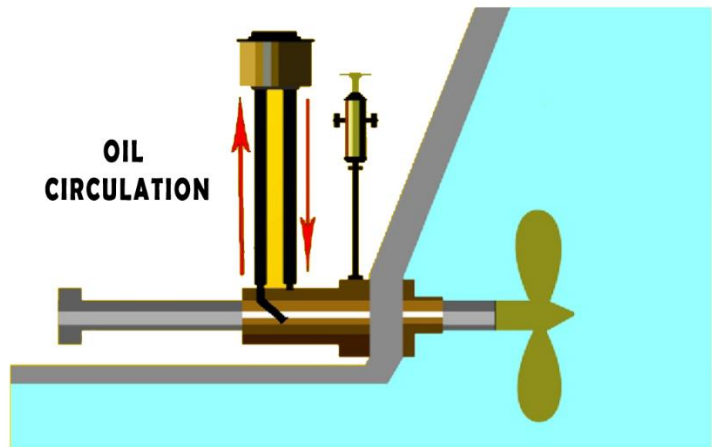
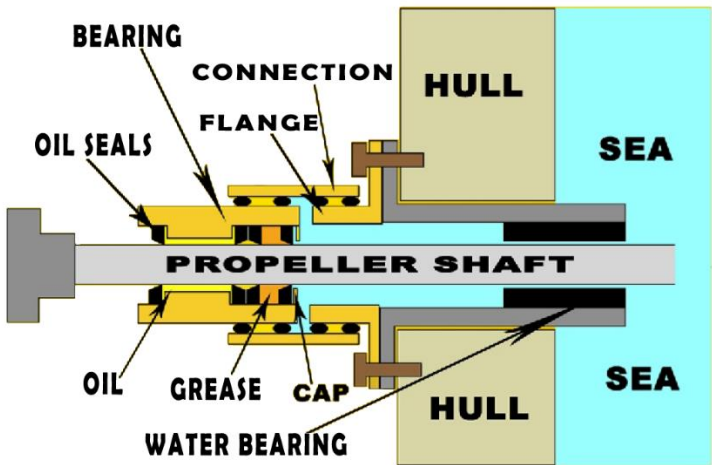
L’Idrotenuta Ts è il perfezionamento dei tradizionali sistemi di tenuta utilizzati sulle navi.

La bronzina, boccola che guida gli anelli di tenuta sull’asse, ha un profilo interno che genera un fenomeno di pompaggio dell’olio con la rotazione dell’asse.

Tale circolazione assicura un cuscino d’olio costante tra asse e bronzina, e soprattutto tra asse ed anelli di tenuta, garantendo loro una lunghissima vita grazie all’assenza di attrito.

Lato mare vi è una precamera riempite con un grasso idrorepellente che impedisce la formazione di denti di cane in prossimità dell’anello di tenuta dell’olio; la stessa spinta idrostatica annulla le perdite di grasso verso il mare.

L’Idrotenuta termina con un coperchio metallico che protegge da sabbia e lenze. La bronzina è collegata all’astuccio-passascafo tramite un robusto giunto metallico a doppia articolazione che consente di assorbire vibrazioni, disallineamenti e decentramenti dell’asse.



H. SEAL WORKING

H. Seal Patent: oil circulation, double dry stage, self-aligning bearing.

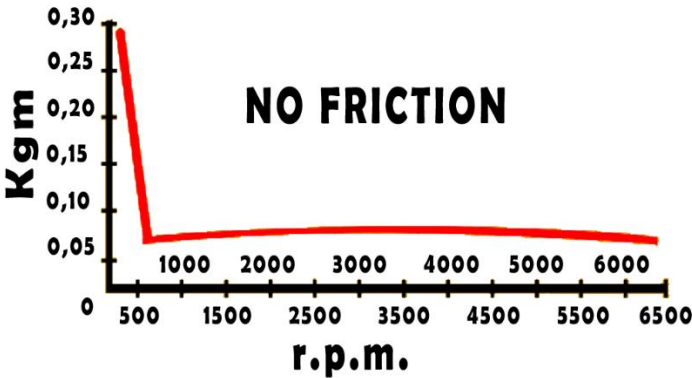
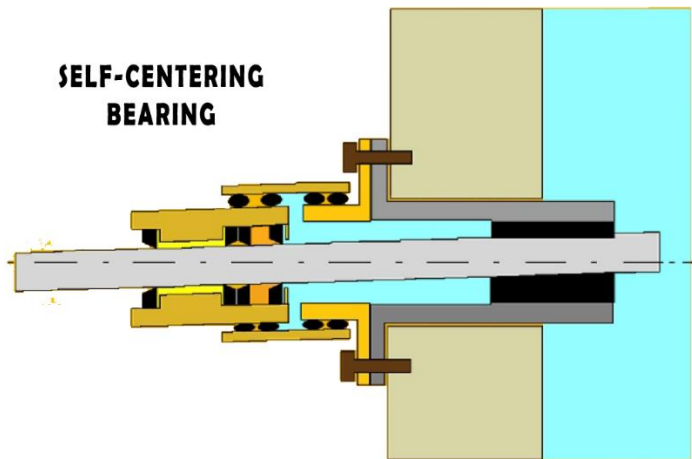
The H. Seal may be considered the evolution of traditional oil systems used in ships.

H. Seal bearing has a special interior profile that creates an oil pumping with the rotation of the propeller shaft.

The oil circulation ensures the creation of an oil film between the shaft and the bearing, and almost between the shaft and the oil seals: no friction and excellent durability of the oil seals. On the sea side, the H. Seal has a patented grease chamber that protect oil seals from incrustations.

A closing cup protects the oil seals from sand and ropes (fishing-lines...).

The water pressure prevents the escape of the grease from the H. Seal, which is connected to the stern tube in a flexible way by a strong coupling joint with double articulation, this in order to absorb vibrations and misalignments of the propeller shaft. The hardy metal structure of the H. Seal guarantees a reliable working in every condition, even without oil.



Moment of resistance (kgm) of the H. Seal based on tests of "Riva Ferrari" shaft (Ø 1 3/4)

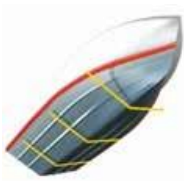
Indicazioni per la scelta della
dimensione delle pale del
sistema DEF-TS

A guideline for the choice of the size of the shovels of the DEF-TS system

by Draghetti Marine Division

La semplicità d'uso e di installazione, la pulizia del design, l'alto livello tecnologico e la qualità dei materiali utilizzati fanno del sistema DEF TS proposto da Draghetti Marine Division una scelta sicura per la gestione dei trim flaps di ogni tipo di imbarcazione.

The simplicity of use and installation, clean design, the high-tech level and quality of materials make the DEF TS system proposed by Draghetti Marine Division the best choice for the handling of trim flaps for every boat.

Tipi di Imbarcazioni Boat type	Lunghezza (m) Length (feet)		Dislocamento Displacement	Velocità (knots) Speed (knots)	Dimensioni raccomandate per le pale dello stabilizzatore (mm) Recommended sizes for stabilizer shovels
	da - from	a - to			
 Carena planante Planing hull	5 (16,5')	10 (33')	<17	<40	300x300
	10 (33')	15 (50')	<35	<40	500x300
	15 (50')	17 (56')	<35	<40	750x410
	17 (56')	18 (60')	<35	<40	800x360
	18 (60')	19 (62')	<55	<40	800x410
	19 (62')	21 (69')	<55	<40	900x410
	21 (69')	24 (79')	<130	<35	1000x460
 Carena dislocante Displacing hull	10 (33')	15 (50')	<15	<18	500x300
	15 (50')	17 (56')	<37	<18	800x300
	17 (56')	18 (60')	<37	<18	900x410
	18 (60')	19 (62')	<55	<18	1000x460
	19 (62')	21 (69')	<55	<18	1000x460
	21 (69')	24 (79')	<130	<18	1000x460

Stabilizzatori di assetto Navigation stabilizers

In un sistema di stabilizzazione come il **DEF-TS** le pale ed i cilindri idraulici devono essere la parte principale e di conseguenza devono avere la maggiore attenzione costruttiva. Per questo Draghetti Marine Division ha scelto l'acciaio inossidabile **AISI 316** per la costruzione dei cilindri e lamiera in acciaio inossidabile **AISI 304** spessore 3 mm per la costruzione delle pale. I cilindri sono rifiniti con lucidatura meccanica mentre le pale possono essere sia pallinate (per migliorare l'aggrappaggio delle vernici antivegetative) che lucidate meccanicamente per avere una finitura estetica più accattivante.

In a DEF-TS stabilization system, the shovels and the hydraulic cylinders are the most important parts so they are the parts for which we pay special attention during creation and production.

For this reason Draghetti Marine Division chose stainless steel **AISI 316** for cylinders and **AISI 304** stainless steel, 3 mm wide sheet for shovels.

The cylinders are finished with mechanical polishing while the shovels may be either shot-peened



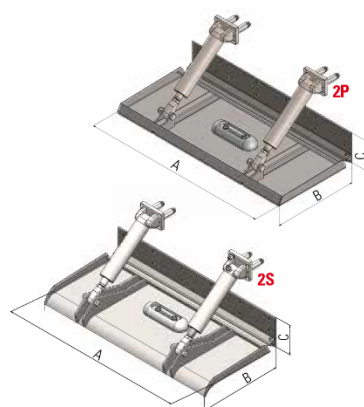
(to improve the adhesion of antifouling paints) or mechanically polished in order to have a more attractive aesthetic finishing.

dimensioni flap flap dimensions

Modello-Version	A	B	C	Tipo Type
MD0250X0300P	250	300	70	1P
MD0250X0300S	250	300	70	1S
MD0300X0310P	300	310	70	1P
MD0300X0310S	300	310	70	1S
MD0500X0310P	500	310	70	1P
MD0500X0310S	500	310	70	1S

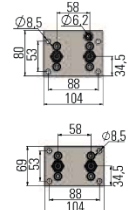
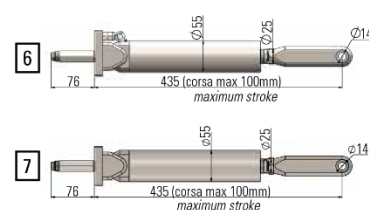
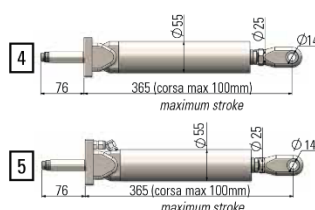
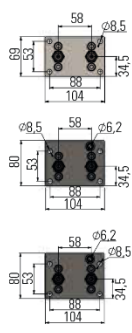
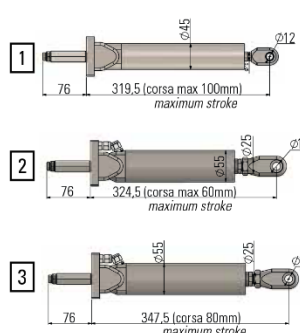


Modello-Version	A	B	C	Tipo Type
MD0750X0410P	750	410	130	2P
MD0800X0360P	800	360	130	2P
MD0800X0360S	800	360	130	2S
MD0800X0410P	800	410	130	2P
MD0900X0410P	900	410	130	2P
MD1000X0460P	1000	460	130	2P
MD1100X0600P	1100	600	130	2P
MD1400X0600P	1400	600	130	2P
MD2000X0600P	2000	600	130	2P



specifiche tecniche cilindro cylinder technical specifications

Modello-Version	Tipo-Type	Corsa Stroke (mm)	Forza Force (N)	Pressione Pressure (bar)	Connessioni Connections	Massa-Weight (kg)
1 MD1630100NN	doppio effetto - double effect	100-80	6360	90	1/4G F	3,850
2 MD2540060SN	doppio effetto con sensore - double effect with sensor	60	11309	90	1/4G F	5,269
3 MD2540080SN	doppio effetto con sensore - double effect with sensor	80	11309	90	1/4G F	5,505
4 MD2540100NN	doppio effetto - double effect	100-80	11309	90	1/4G F	5,705
5 MD2540100SN	doppio effetto con sensore - double effect with sensor	100-80	11309	90	1/4G F	5,850
6 MD2540100NA	doppio effetto attacco stelo lungo - double effect long rod connection	100-80	11309	90	1/4G F	6,050
7 MD2540100SA	doppio effetto con sensore-attacco stelo lungo - double effect with sensor-long rod connection	100-80	11309	90	1/4G F	6,150



Centraline Units



Centralina idraulica con elettrovalvole integrate
Hydraulic Unit with integrated valves



Centralina Elettronica-Electronic Panel



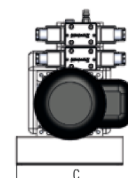
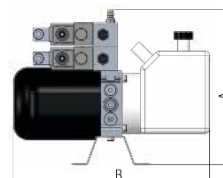
Pulsantiera di controllo e visualizzatore di posizione
Control Keypad and position viewer



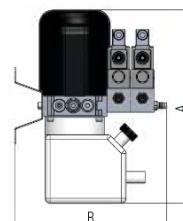
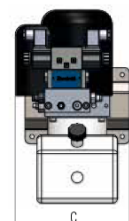
OPTIONAL
Cornice estetica in alluminio verniciato
aesthetic frame in painted aluminum

centralina idraulica *hydraulic unit*

Modello-Version	Caratteristiche-Features	A	B	C
DEF-HYD01H	Minicentralina idraulica-alimentazione a 24 V-n°2 elettrovalvole-montaggio orizzontale Mini hydraulic unit 24 V power supply with n° 2 valves, horizontal mounting	320	406	240
DEF-HYD03H	Minicentralina idraulica-alimentazione a 24 V-n°1 elettrovalvole-montaggio orizzontale Mini hydraulic unit 24 V power supply with n° 1 valve, horizontal mounting	320	406	240
DEF-HYD11H	Minicentralina idraulica-alimentazione a 12 V-n°2 elettrovalvole-montaggio orizzontale Mini hydraulic unit 12 V power supply with n° 2 valves horizontal mounting	320	406	240
DEF-HYD13H	Minicentralina idraulica-alimentazione a 12 V-n°1 elettrovalvole-montaggio orizzontale Mini hydraulic unit 12 V power supply with n° 1 valve horizontal mounting	320	406	240
DEF-HYD01V	Minicentralina idraulica-alimentazione a 24 V-n°2 elettrovalvole-montaggio verticale Mini hydraulic unit 24 V power supply with n° 2 valves vertical mounting	406	320	240
DEF-HYD03V	Minicentralina idraulica-alimentazione a 24 V-n°1 elettrovalvole-montaggio verticale Mini hydraulic unit 24 V power supply with n° 1 valve vertical mounting	406	320	240
DEF-HYD11V	Minicentralina idraulica-alimentazione a 12 V-n°2 elettrovalvole-montaggio verticale Mini hydraulic unit 12 V power supply with n° 2 valves vertical mounting	406	320	240
DEF-HYD13V	Minicentralina idraulica-alimentazione a 12 V-n°1 elettrovalvole-montaggio verticale Mini hydraulic unit 12 V power supply with n° 1 valve vertical mounting	406	320	240
	Tubi norma SAE 100 R7 3/16 temp. -40°/+100°C, Max 880 bar con connessioni da 1/4G eseguiti su misura SAE 100R7 3/16 pipes, temp. -40/+100° Max 880 bar 1 mt long with 1/4 G female connections made custom	/	/	/



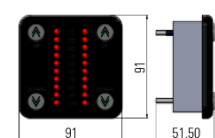
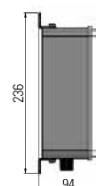
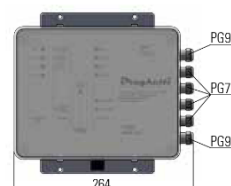
Montaggio orizzontale
Horizontal mounting



Montaggio verticale
Vertical mounting

controllo elettronico *electronic control*

Modello-Version	Caratteristiche-Features	A	B	C
DEF-ECU01	Centralina elettronica di interfaccia tra sensore e pulsantiera dotata di auto retract con cablaggio a 4 movimenti per comando di n°1 centralina idraulica. Electronic panel for interface between sensor and keyboard with auto retract function with wiring to 4 movements for control of N°1 hydraulic unit.	264	236	94
DEF-ECU02	Centralina elettronica di interfaccia tra sensore e pulsantiera dotata di auto retract con cablaggio a 4 movimenti per comando di n°2 centraline idrauliche. Electronic panel for interface between sensor and keyboard with auto retract function with wiring to 4 movements for control of N°2 hydraulic units.	264	236	94
DEF-CTRL	Pulsantiera comando flaps con visualizzazione a led della posizione dei flaps con cavo di cablaggio can bus 10 m. Flaps control keypad with led display of flaps position with wiring cable can bus 10 m long.	91	91	51,5



Il Sistema DEI-TS

Il sistema DEI-TS sfrutta tutta la tecnologia entro bordo del nostro già collaudato sistema DEF-TS a cui vengono sostituiti le parti a contatto con l'acqua.

Il funzionamento e l'obiettivo degli intruder è lo stesso dei flap, infatti entrambi servono per migliorare l'assetto dell'imbarcazione e farla uscire in tempi minori dalla planata così da avere un minore consumo di carburante e un maggiore rendimento idrodinamico dell'imbarcazione stessa. L'abbassamento della lama avviene tramite forza idraulica garantita da pompe idrauliche che muovono cilindri incassati nell'intruder. La comunicazione tra tutti i componenti del sistema è gestita da una centralina elettronica che tramite la pulsantiera posta sulla plancia comanda la pompa e di conseguenza anche i cilindri.

La scelta tra flap e intruder dipende dalla tipologia di scafo e dallo spazio che si ha a disposizione, infatti in caso di problemi di ingombro dovuti a spiaggette o altri componenti della barca è utile avere un ridotto ingombro longitudinale opportunità che danno appunto gli intruder.

The DEI-TS System

The new DEI-TS system exploits all of our already proved inboard technology, with the only exception of containing different water-contact parts.

The intruders' goal and operation is the same as the Flaps'.

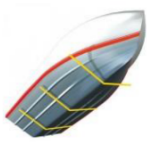
Both of them are used to improve the boat's trim as well as the glide speed, providing a minor fuel consumption and a major hydrodynamic performance.

The lowering of the blade happens through hydropower supplied by hydro pumps which get the intruders' cylinders in motion. The communication between every component within the system is managed by an electronic central unit, driving the pumps and of course the cylinders.

The choice between flaps and intruders depends on the boat type and available space.

Specifically, in case of space insufficiency due to the presence of other sailboat components, it is recommended to think of a good longitudinal space saving solution, more precisely an installation solution comprising intruders.

Indicazioni di massima per la scelta della dimensione degli intruder del sistema DEI-TS by Draghetti Marine Division

Tipo di imbarcazione	Lunghezza [metri] (piedi)		Dislocamento [tonnellate]	Velocità [nodi]	Dimensioni raccomandate dell'interceptor [mm (larghezza) x mm (uscita lama)]
	da	a			
Carena planante 	5 (16,5')	12 (40')	<35	<40	300x50
	12 (40')	18 (59')	<55	<40	600x50
	18 (59')	24 (78')	<130	<40	900x50

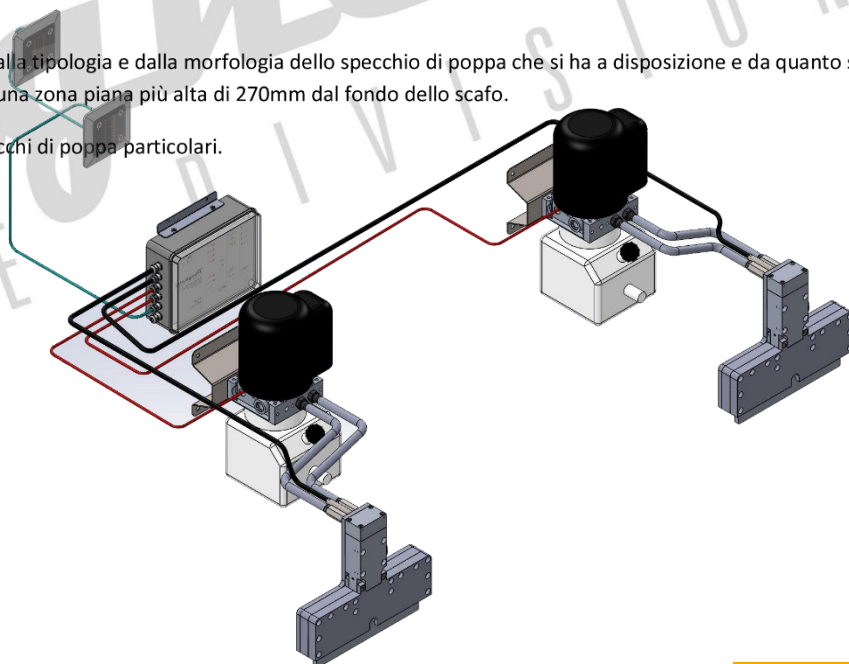
Il dimensionamento corretto dell'intruder dipende fortemente dalla tipologia e dalla morfologia dello specchio di poppa che si ha a disposizione e da quanto si vuole sollevare l'imbarcazione. Per l'installazione occorre avere una zona piana più alta di 270mm dal fondo dello scafo.

Si eseguono progetti su misura, realizzati appositamente per specchi di poppa particolari.

The correct intruder sizing strictly depends on the transom's type and morphology as well as the amount of requested boat elevation.

For the correct installation, a plane area higher than 270 mm from the hull becomes necessary.

Our company provides custom projects, designed and built particularly for special transom types.



POMPE DI RAFFREDDAMENTO MOTORE E RICAMBI – MARINE ENGINE COOLING PUMPS AND SPARE PARTS

Questa sezione del catalogo illustra la gamma completa delle pompe di raffreddamento per tutte le applicazioni di motori e gruppi elettrogeni marini.

Nelle pagine che seguono sono riportati i modelli di pompa ed i relativi ricambi originali dei principali produttori quali Johnson Pump, Jabsco, Sherwood e F.A.G.K. - che nel complesso coprono l'intera gamma di applicazioni in campo marino.

Questo tipo di pompe a girante elastica hanno il vantaggio principale di essere autoadescanti. Un altro vantaggio della girante elastica è quello di poter far passare piccole impurità evitando l'inzeppamento ed il danneggiamento della pompa. Il corpo è in bronzo, albero in acciaio INOX 316, anello di tenuta con molla INOX, tenuta meccanica, cuscinetti a sfere pre-lubrificati. Hanno la girante in gomma neoprene che non gli permette di girare a secco per più di 30 secondi. Inoltre il vantaggio dei prodotti è la facile reperibilità dei ricambi.

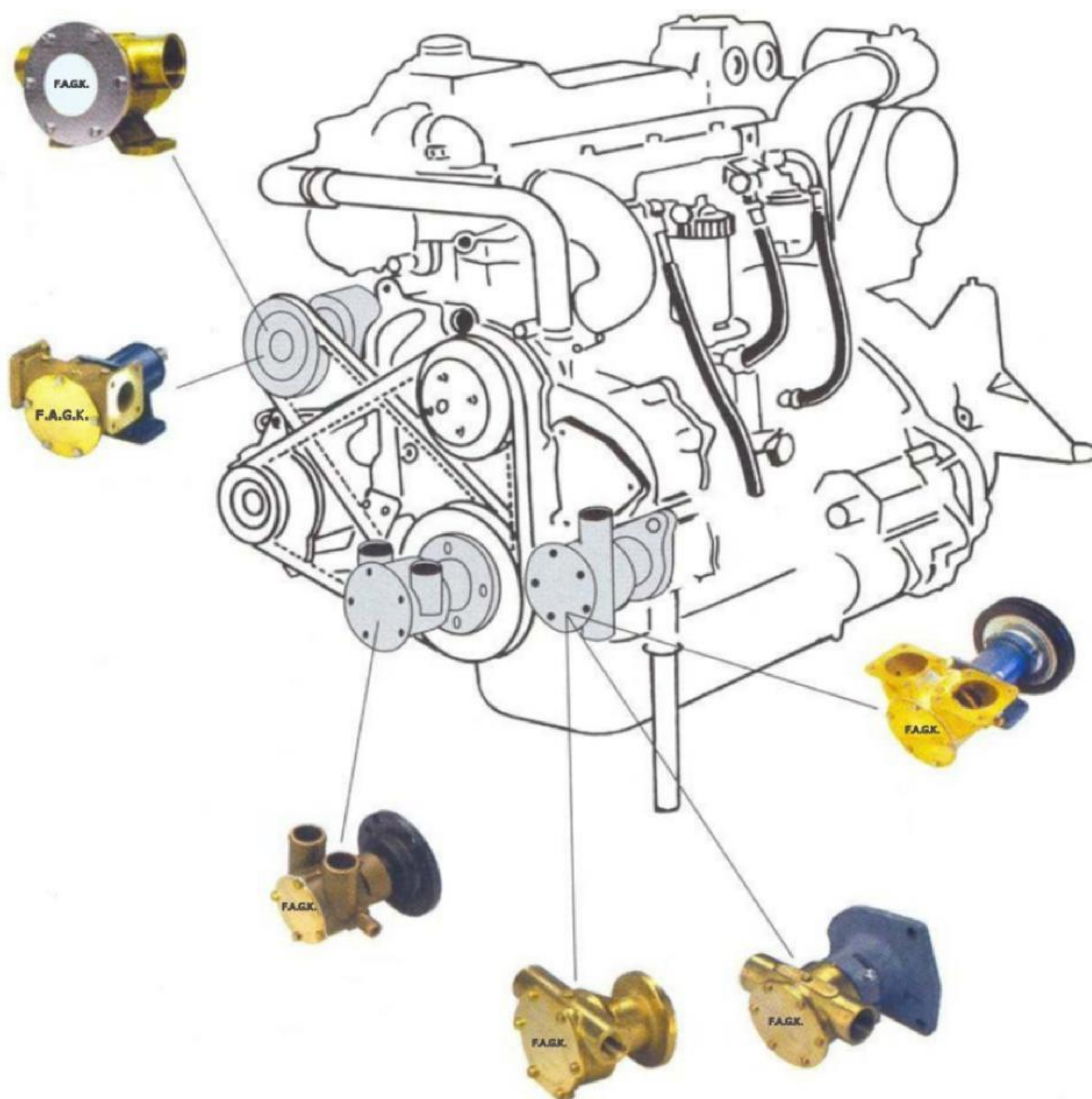
These types of rubber impellers pumps have the main quality of self-priming.

This catalog section illustrates the full range of water cooling pumps suited for all types of engines.

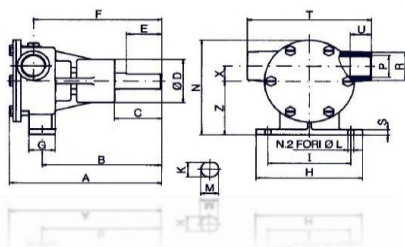
The body of pumps is bronze made, comprising an INOX 316 stainless steel shaft, lip seal with INOX spring, mechanical seal, pre-lubricated ball-bearings.

They have a Neoprene rubber impeller that doesn't allow them dry operating for more than 30 seconds.

One of the most important quality of this products, remains the easiness of spare parts retrieval.



POMPE A GIRANTE CON PIEDE DI SUPPORTO - FLEXIBLE IMPELLER PUMPS WITH FOOTSTALL



FPM 001
CODE: **0499**
Service KIT: **5351**

JOHNSON: F35B-8-10-35038-41
JOHNSON: F35B-8-10-03-10-24569-13

FPM 004
CODE: **0498**
Service KIT: **5351**

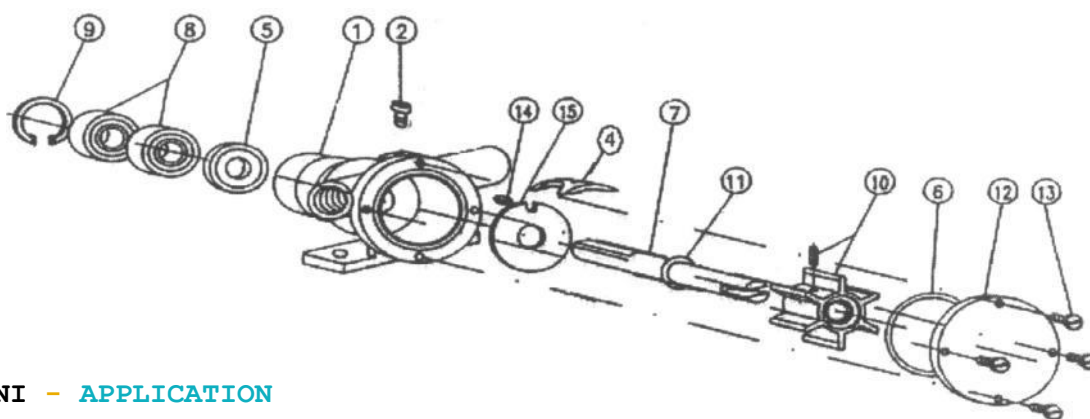
JOHNSON: F35B-8-10-35038-3-6
JABSCO : 52010-2001 ex 6604-205 / 6540-201 / 2620-211

FPM 005
CODE: **500**
Service KIT: **5351**

JOHNSON: F35B-8-10-35038-1-2
JABSCO : 52010-2001 ex 6604-205 / 6540-201 / 2620-211

	A	B	C	D	E	F	G	H	K	I	L	M	N	P	R	S	T	Z	X	Peso
FPM 001	96	56,5	22	35	22	76,7	23	70	8,8	52	7	9,5	60	3/8" GAS	22	5	80	30	11	0,6 Kg
FPM 004	81,5	43,7	20	35	20	66,7	23	70	11	52	7	12 K6	60	3/8" GAS	22	5	80	30	11	0,5 Kg
FPM 005	96	56,5	34	35	30	76,7	23	70	11	52	7	12 K6	60	3/8" GAS	22	5	80	30	11	0,6 Kg

	700 rpm		900 rpm		1400 rpm		1750 rpm		2000 rpm		2500 rpm	
Bar	KW	L/min	KW	L/min	KW	L/min	KW	L/min	KW	L/min	KW	L/min
0	0,05	15	0,08	18	0,12	20	0,15	24	0,17	26	0,17	29
0,3	0,06	8	0,09	11,5	0,13	15,5	0,16	20	0,18	22	0,18	26
0,6	0,09	6,5	0,09	10	0,13	14	0,16	17,5	0,18	20	0,18	24
1	0,09	5	0,09	8,5	0,18	13	0,18	5,5	0,18	18	0,18	21



APPLICAZIONI - APPLICATION

ARONA	: AD182 LM - AD185M - AD195M / M
ARS marine	: Mini D600 - Mini Six - Twelve
BLAYLAND	: 2 Cil.
CLAE Australia	: C 53
C.T Marine	: FD 2000
DRINKWAR	: K2AS
FARIMANN	: R 30 M / H
DUCATI	: DM184 - DM184
EKSTROEM	: K2AS
ENGEL MAX	: A30M - A40M - L30M
FARYMANN	: A30 M / H - AM40 /H /CS / DS / ES / GS; L30 M -K34
FAST FREEZE	: Model 16 - Model 25 -
FISCHER PANDA	: PMS 3 FAR - PMS 4 FAR
FLAMME	: D430
HAWKER Siddeley	: SL4 - AC1W - AC2W - Manifold -
HAWKER Siddeley	: Serie SL - SR
H F L	: PETTER
LES Marine	: Ford 2715 E
MASE	: MM150 - MM1501
MITSUBISHI	: K2AS
NANNI	: K 34 - L30
ONAN CORP	: MAJB 2,5 / 3,5- ENSIGIN 9KW POWER GENNY: 2C Kubota
SACHS NSU	: Rotomarine W100L- W70LW
STAMEGNA	: MICRO 4
TEMPEST	: 1622 S
WATERMOTA	: Sea Cub MK2 - Serie Beaver / Cub
WESTERBEKE	: 8 KW- 10KW
WORTHAM BLAKE	: SERIE FISHERBOX - MK III
UNIVERSAL	: 1.4000000001
ENCO	: Ford 100E-105E-109E-115E-122E (FPR 001-CODICE 499)

POS	DESCRIZIONE	DESCRIPTION
-	0500 POMPA COMPLETA	- PUMP ASSY
1	2005 CORPO POMPA	1 PUMP BODY
2*	1431 VITE	1 SCREW
4*	1811 CAMMA	1 CAM
5*	5105 ANELLO DI	2 RETAINING
6*	5200 O-RING	1 O-RING
7	1900 ALBERO - FPM	1 SHAFT
7	1898 ALBERO - FPM	1 SHAFT
7	1901 ALBERO - FPM	1 SHAFT
8*	2056 CUSCINETTO	2 BEARING
9	1629 SEEGER	1 SNAP RING
10*	1395 GIRANTE	1 IMPELLER
11*	5201 ANELLO OR	1 O-RING
12*	1842 COPERCHIO	1 COVER
13*	1406 VITE	4 SCREW
14	1522 SPINA	1 PIN
15*	1800 RASAMENTO	1 SHIM
16*	1613 SEEGER	2 SNAP RING

POMPE A GIRANTE ELASTICA CON SUPPORTO ATTACCO 3/4" - GAS
FLEXIBLE IMPELLER PUMPS WITH 3/4" ATTACK - GAS



TYPE: **FPM 335T** - CODE: **0504**

T = Con Tenuta Meccanica AISI 316 - Mechanical Seal

***Service KIT: 5323**



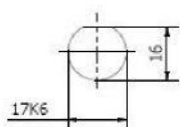
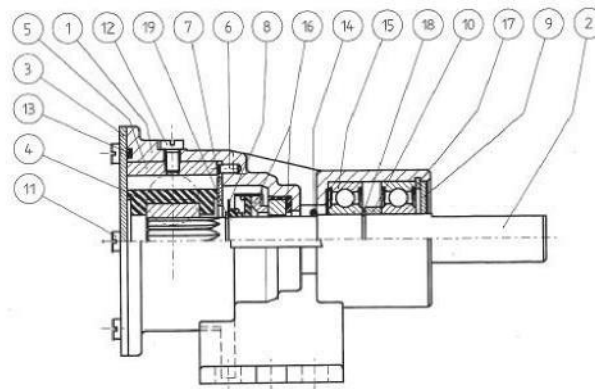
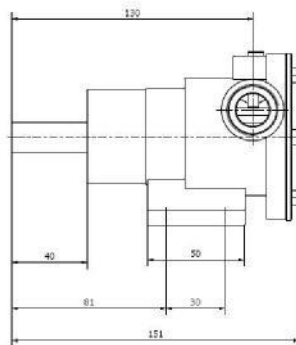
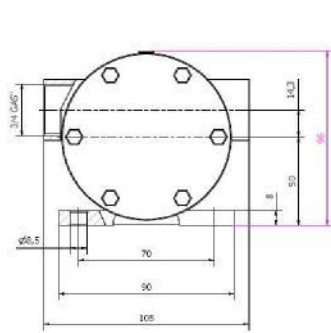
**Alluminium-bronze body*

TYPE: **FPM 335 L** - CODE: **0514**

L = Con Anello di Tenuta con molla inox - Lip Seal

***Service KIT: 5322**

	700 rpm	900 rpm	1400 rpm	1750 rpm	2000 rpm
Bar	L/min	L/min	L/min	L/min	L/min
0,3	16	21	33	41	46
0,6	15	20	32	39,5	45
1	14	19	30	37	42
1,5	13	17	27	33,5	38
2,0	/	/	22	28,5	33



SEZIONE ALBERO Tipo
335L /T



ANELLO DI TENUTA Tipo 335 L

PZ	Q.	Descrizione	Description	Cod
18	1	Seeger	Retaining ring	1616
17	1	Seeger	Retaining ring	1630
16*	1	Tenuta mecc.	Mechanical seal	1135
15	2	Cuscinetto	Ball bearing	2065
14	1	O-ring	O-ring	5204
13*	1	Guarnizione	Gasket	5187
12*	1	Vite	Screw	2371
11*	6	Vite	Screw	1441
10	1	Spessore	Spacer	3796
9	1	Rondella	Washer	3355
8	1	Rondella	Washer	3446
7*	1	Rasamento	Shim	1801
6	1	Spina	Pin	1522
5*	1	Camma	Cam	1818
4*	1	Girante	Impeller	1393
3*	1	Coperchio	Cover	1837
2	1	Albero	Shaft	3791
1	1	Corpo pompa	Body	3788

TYPE: **FAGK FPM 335T- % GAS**

CODE: **0504**

Johnson: F5B-8 10-24571-01

PZ	Q.	Descrizione	Description	Cod
18	1	Seeger	Retaining ring	1616
17	1	Seeger	Retaining ring	1630
*16	1	Anello tenuta	Lipseal	5165
15	2	Cuscinetto	Ball bearing	2065
14	1	O-ring	O-ring	
*13	1	Guarnizione	Gasket	5187
*12	1	Vite	Screw	2371
11	6	Vite	Screw	1441
10	1	Spessore	Spacer	3796
9	1	Rondella	Washer	3355
8				
*7	1	Rasamento	Shim	1801
6	1	Spina	Pin	1522
*5	1	Camma	Cam	1818
*4	1	Girante	Impeller	1393
*3	1	Coperchio	Cover	1837
2	1	Albero	Shaft	3791
1	1	Corpo pompa	Body	3788

TYPE: **FAGK FPM 335L - % GAS**

CODE: **0514**

Johnson: F5B-8 10-24571-13

POMPA CON "ANELLO DI TENUTA" LIP SEAL PUMP

TYPE: **FPM 335L** – CODE: **0514**

JOHNSON: F5B-8-10-24571-13
JOHNSON: F5B-8-10-24571-14
JOHNSON: F5B-8-10-24571-15
JOHNSON: F5B-8-10-24571-52
JOHNSON: F5B-8-10-24073-1
JOHNSON: F5B-802-10-24073-2 / JABSCO: 21820-2051
JABSCO: Ex 4900-200 / 21820-2001
JABSCO: 52040-2001

POMPA ALBERO Ø 16 – CON CHIAVETTA Ø 16 SHAFT PUMP – WITH KEY

FAGK PUMP: **FPM 335 LC** – CODE: **0495**

JOHNSON: F8B-8-10-24073-10
JOHNSON: F8B-8-10-24571-13-24-52-54

POMPA CON "TENUTA MECCANICA" MECHANICAL SEAL PUMP

TYPE: **FPM 335T** – CODE: **0504**

JOHNSON: F5B-8-10-24571-01
JOHNSON: F5B-8-10-24571-02
JOHNSON: F5B-8-10-24571-03
JOHNSON: F5B-8-10-24571-51
JABSCO: 52040-2001

POMPA ALBERO Ø 16 – CON CHIAVETTA Ø 16 SHAFT PUMP – WITH KEY

FAGK PUMP: **FPM 335 TC** – CODICE: **0494**

DAF : D 475
MERCEDES BENZ-UK : OM314 – OM401 – OM402
MERCEDES BENZ-UK : OM 601 – OM638
MOTONAUTICA BONI : BF 425 AN – BF 425 TS
V W : 4 CIL.
ZENITH / ISUZU : 4JG2 Gen-Set

APPLICAZIONI

ARONA	:	AD 495
BARNES BRINCRAFT	:	2.5
BETA Marine	:	XLD 418
BRITISH LEYLAND	:	1,5 – 1.8 – 2.5
BURILOI	:	XLD 418
CLAE AUSTRALIA	:	FFD 36 – DB 85 – C 635
C. POWER	:	4.18 (1.8 Litri) - 4.90 (1.9 Litri)
C.T. Marine	:	1.8 – 2.5 FSE – CT 40D (1,5 Litri)
C.T. Marime	:	CT 50 D
DAF	:	575 - 615
DIECON	:	ED 33
DOLPHIN Marine	:	ALTAIR – ALTAIR II – ESCORD 1.6
DUCATI	:	21S – 593S
FISCHER PANDA	:	PMS 15KUB / 20 / 25 / 30 / 33 / 37 / 40 PMS 45 KUB. Kubota PMS 40MB / 50 / 55-Mercedes PMS10/4 - PMS 14 /4 - PMS HD 15/4 - PMS HD18/4
F.N.M DIESEL	:	FNM 1.3 ATI
MOTONNAU. BONI	:	FSD 425- Motore FORD
FORD	:	FSD 425
FOFNAUT Francia	:	MERLIN FSD 425
ERALD Marine	:	4.120 T – 4.80 – 4.90
GENERAL MOTORS	:	220M – 330M -
HIGH POWER Marine	:	2,5 Leyland 2.5 -
LANCING Marine	:	FORD 4 Cil. - 6.354 – 590E – 592E T 6.354
LEYLAND THORCROFT	:	90-90E-90/2-108/2-RF6.330
MARINE POWER	:	GM 4 Cil. - GM 350 – GM 454 -
MASE Gruppi	:	IS 11 – IS 15 IS 31 -
MASE Gruppi	:	MARINER 1200 – MARINER 3400
MEAKES -J. G	:	JG 1500 D – JGM 1800 (1.8 litri)
MERCEDES BENZ	:	OM 401 – OM 402 OM 602 -3 / OM 638
MERMAID Marine	:	Meermin – Minuet – Merlin FSD
MOTONNAU.BONI	:	BF 425 – BF 425 AN – BF 425 TS -
NORFOLK Marine	:	XLD
NORPRO USA	:	600 – 1000 – 1120A – 1731 -1800
PEGASO	:	9716S
PEGEOT INDENOR	:	X6M-88A -
P.K.F. Marine	:	Ford BSD 444T – FSD 425
RUSSEL NEWBURY	:	L 89 – RD1 – D2 – D3 – D4 F.V.L -
SAMOFA	:	E 108W – 6DR – 6QD -
STAMEGNA Gruppi	:	SM 300
TEMPEST	:	Capitan 1.5 – Capitan 1.8
THORCROFT	:	FEB 90 – 90E – 90/2 - 108
VOLVO PENTA	:	MB 36B (10550-01)
VOLVO PENTA	:	MD 22SX – TMD 22SX (29541001)
WIZEMANN - VM	:	WM 80 – OM 314

POMPA A GIRANTE ELASTICA CON SUPPORTO Attacco 1" – GAS
FLEXIBLE IMPELLER PUMPS WITH 1" ATTACK – GAS



TYPE: **FPM 336L** – CODE: **0515**

L = Con Anello di Tenuta con molla inox / Lip Seal

***Service KIT: 5324**

JOHNSON: F7B-8-10-24572-13 – **FAGK: 0515**

JOHNSON: F7B-8-10-24070 – **FAGK: 0515**

JOHNSON: F7B-8-10-24070-1-3 / JABSCO: 52080-2001

JOHNSON: F7B-8-10-24070-1 - Neoprene - Cam 6 mm

JOHNSON: F7B-89-10-24070-2 – Nitrile - Cam 6 mm

JOHNSON: F7B-803-10-24070-3- Neoprene- Cam 4 mm

JOHNSON: F7OB-893-10-24070-4- Nitrile -Cam 4 mm

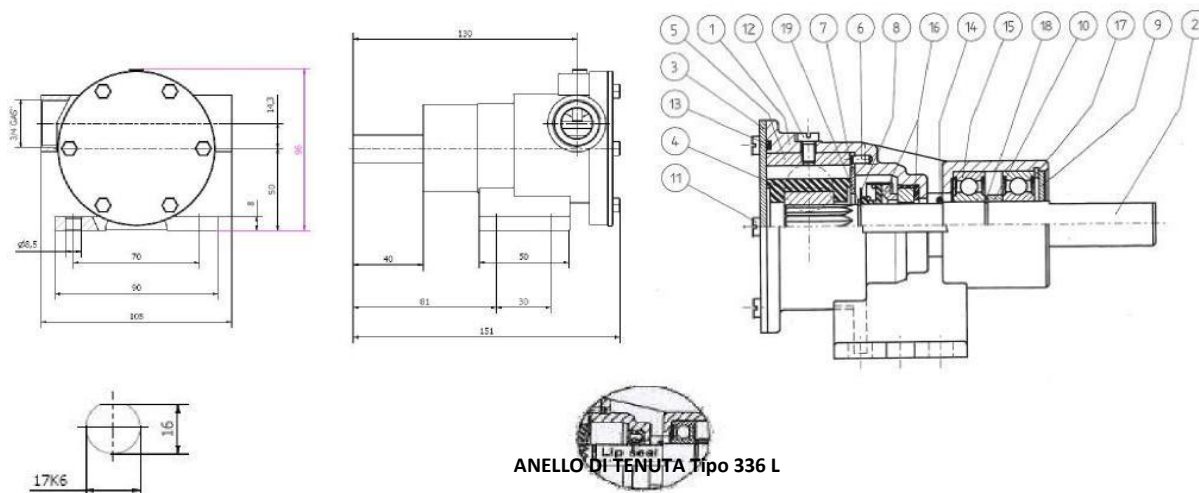
JABSCO: 51080-2003 – Alternativa a 6520-2003

JABSCO: 52080-2051 – Alternativa a 6420-2051

JABSCO: 52080-2001 – Alternativa a 6420-2000



	700 rpm	900 rpm	1400 rpm	1750 rpm	2000 rpm
Bar	L/min	L/min	L/min	L/min	L/min
0,3	36	46	74	98	107
0,6	34	44	72	96	104
1	29	40	67	87	98
1,8	21	30	57	73	84
2,5	/	/	37	52	63



ANELLO DI TENUTA Tipo 336 L

APPLICAZIONI

CUMMINS	:	V8
DAF	:	D 575 – D 615
DRINKAWARD	:	A 475 – D 575 – F 615 – OM 314
	:	OM 352 – OM 352A
PERKINS	:	SM6 – 31,52 – 3.1524
STEYER	:	M144VTI – M164JP – MO196K35
	:	M166T – M236T – M246T – MO174VTI
	:	MO196K35 – MO236K42
MERCEDES	:	OM 602/3 – OM314 – OM352
NPRPRO USA	:	6500T2
NANNI	:	RC 210 D
PEUGEOT	:	505
VOLVO P	:	MD96B-MD67C-TMD96B
V W	:	6 Cil.
ZENITH / ISUZU	:	4BG1- 6BG1 Gen-set

PZ	Q.	Descrizione	Description	Cod
16	1	O-RING	O-Ring	5202
15	2	STAFFA	Clip	1433
*1	4	VITE	Screw	1406
*1	1	COPERCHIO	Cover	1840
*1	1	GUARNIZIONE	Gasket	1954
11	1	SPINA PER	Pin	1522
*1	1	GIRANTE	Impeller	1395
9	1	RASAMENTO	Shim	1800
8	1	SEEGER	Retaining	1629
7	2	CUSCINETTO	Bearing	2056
6	1	ALBERO	Shaft	1911
*5	2	ANELLO DI	Lipseal	5105
*4	1	RONDELLA	Washer	1435
*3	1	VITE	Screw	1406
*2	1	CAMMA	Cam	1811
1	1	CORPO POMPA	Body	2013

POMPA A GIRANTE ELASTICA CON SUPPORTO Attacco 1" – GAS
FLEXIBLE IMPELLER PUMP WITH 1" ATTACK – GAS



POMPA CON "ANELLO DI TENUTA" – LIP SEAL PUMP

TYPE: FPM 336T – CODICE: 0516

T = Con tenuta meccanica acciaio inox AISI 316 – **MECH. SEAL**

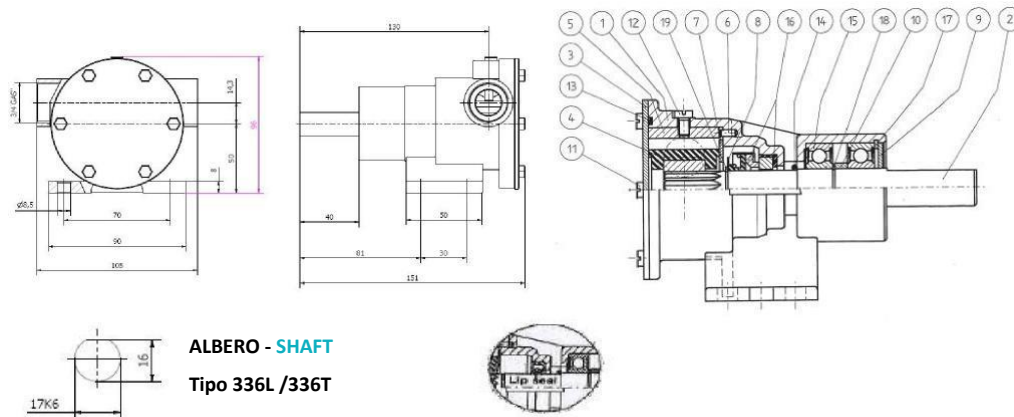
*Service KIT: 5325

JOHNSON: F7B-8-10-24572-01- **FAGK: 0516**



*ANELLO DI TENUTA – LIP SEAL 336 L

	700 rpm	900 rpm	1400 rpm	1750 rpm	2000 rpm
Bar	L/min	L/min	L/min	L/min	L/min
0,3	36	46	74	98	107
0,6	34	44	72	96	104
1	29	40	67	87	98
1,8	21	30	57	73	84
2,5	/	/	37	52	63



ALBERO - **SHAFT**
 Tipo 336L /336T

APPLICAZIONI

AILS A GRAIG	:	RF 4 – RAB 6 – PK Serie
ALLIS CHALMERS	:	60 AMR – 273
BOLINDER MUNKTELL	:	1051BR – 1054BR
DOLOHIN Marino	:	FSD 2.5 – VEGA -
DAF Netherlands	:	DA 475-DA575-DA 575 M -DP680 M
	:	DS575M - DT575MY – DT 615MY
DRINKAWARD MOT.	:	DA 475-DO 575-DF 615-OM 615-
	:	OM 352- OM 352A -
	:	ex JABSCO: 6420-2001
DUVANT	:	2 VD – 6 VD
F.N.M.	:	HPE 80 – HPE 110
FISCHER PANDA	:	PMS 80 ST -
GENERAL MOT. G. M.	:	330 T URBO – 381 M- 466M – 500M
HAWKER SIDDELEY	:	TS3 -JP- JK Serie – SW3 MGR-
HAWKER DIDDELEY	:	52STW3 MGR- STW MGR-
KELVIN UK	:	51080-2003
A. A. Germany	:	HAF 400 T
LANCING Marine	:	6 LX x – 6 XB – 8 LXB – T 6.354
JOHN DEER	:	TMD 27 M -
MARINE CRAFT	:	2653/E/Hc-2654HC - 2655EHC
MUZZI	:	12 A – 12 B -
N.E. ISUZU	:	6 Cil.
NANNI	:	6.570 – 6.570 T – RC 210D -
NORPRO-USA	:	650T2 – 6500T2
PECASO	:	9028 – 9040 – 9100 /4 – 9100/5 -
PUGEOT INDENOR	:	X6M-88A
PERKINS – UK	:	SM6 – 3.152 – 3.1524
RENAULT COUACH	:	RC 210D – RC 320D
SAMOF A Netherlands	:	Z-D- / V108W
SCHWARTING	:	S 314 – S 314A – S 352 – S 352A
SOLE DIESEL	:	6.354 – 6.354.3
SUTTON POWER	:	Cummins 8V
TILBURGBASTIANEN	:	TBM space winner
TILLING STEVENS	:	SUPER SNIPE
VOLVO PENTA	:	MD47A /C-MD67A / C-MD96B
	:	TAMD96B-TMD96 B – 1113R -
WIZEMANN	:	Daimier Benz WM 130 – OM 352/A

PZ	Q.	Descrizione	Description	Cod
16	1	O-RING	O-Ring	5202
15	2	STAFFA	Clip	1433
*1	4	VITE	Screw	1406
*1	1	COPERCHIO	Cover	1840
*1	1	GUARNIZIONE	Gasket	1954
11	1	SPINA PER	Pin	1522
*1	1	GIRANTE	Impeller	1395
9	1	RASAMENTO	Shim	1800
8	1	SEEGER	Retaining	1629
7	2	CUSCINETTO	bearing	2056
6	1	ALBERO	Shaft	1911
*5	2	ANELLO DI	Lipseal	5105
*4	1	RONDELLA	Washer	1435
*3	1	VITE	Screw	1406
*2	1	CAMMA	Cam	1811
1	1	CORPO POMPA	Body	2013

POMPA PER RAFFREDDAMENTO MOTORI – MARINE ENGINE COOLING PUMP

TYPE: **FPR 034** – CODE: **0534**

*Service KIT: **5332**

JABSCO : 29470-2231C-ex 9900

JABSCO : 29470-2531C

TYPE: **FPR 038** – CODE: **0536**

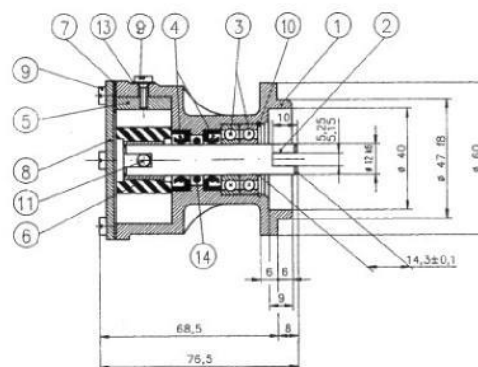
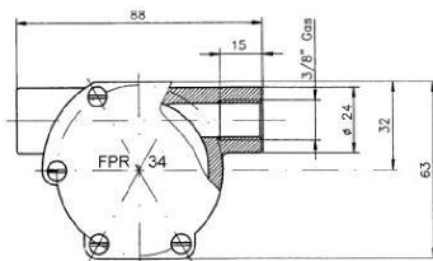
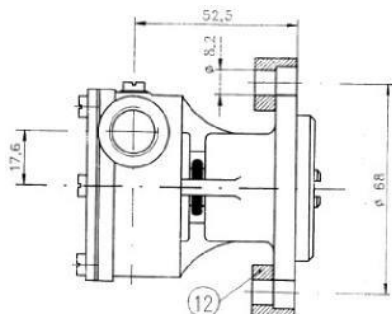
*Service KIT: **5331**

JABSCO : 29470-2231-ex 9900

JOHNSON : F4B-9-10-35098-1-4



	700 rpm	900 rpm	1400 rpm	1750 rpm	2000 rpm	2500 rpm
Bar	L/min	L/min	L/min	L/min	L/min	L/min
0	13	16	23	25,5	28	32
0,3	11	12	20	22,5	25	29
0,6	9	11,5	16,5	19	21	26
1	5	10,5	15	18	20	25



PZ	Q.	Descrizione	Description	Cod
14	1	O-ring	O-ring	5201
13	1	Rondella	Washer	1435
12	2	Staffa	Clip	1434
11	1	Vite	Screw	1433
10	1	Seeger	Retaining ring	1629
*9	7	Vite	Screw	1406
*8	1	Coperchio	Cover	1839
*7	1	Guarnizione	Gasket	1960
*6	1	Girante	Impeller	1392
*5	1	Camma	Cam	1814
*4	2	Anello tenuta	Lipseal	5105
3	2	Cuscinetto	Ball bearing	2056
2	1	Albero	Shaft	1910
1	1	Corpo pompa	Body	2014

PZ	Q.	Descrizione	Description	Cod
14	1	O-ring	O-ring	5201
13	1	Rondella	Washer	1435
12	2	Staffa	Clip	1434
11	1	Vite	Screw	1433
10	1	Seeger	Retaining ring	1629
*9	7	Vite	Screw	1406
*8	1	Coperchio	Cover	1839
*7	1	Guarnizione	Gasket	1960
*6	1	Girante	Impeller	1398
*5	1	Camma	Cam	1814
*4	2	Anello tenuta	Lipseal	5105
3	2	Cuscinetto	Ball bearing	2056
2	1	Albero	Shaft	1907
1	1	Corpo pompa	Body	2014

APPLICAZIONI: POMPA CODICE: 0534

AIFO IVECO FPT: 4021M17 / M20 / M21- 4031M25 **AIFO IVECO FPT :** 4031M30 – 4041M33 / M39 / M40 **AIFO IVECO FPT :** 4041M48

LOMBARDINI: LDW 401M – LDW402M – LDW502M – LDW602M – LDW702M – LDW702SD – LDW903M – LDW1003M – LDW1204M

VOLVO PENTA: (829985) – AQ95 – AQ110 – AQ115 / 115A/B / AQ130 C / D – AQ140 – BB30 – BB115 – MD3 - **WATERMOTA:** Leopard – Panther KK 3 / 4

APPLICAZIONI: POMPA CODICE: 0536

AIFO IVECO FPT: 4021M17 – 4021M20 – 4031M25 – 4241M41 – UNO 25 / M40 HIGH SPEED

CT Marine: CT 100 – CT 2000C – CT 50 – CT 80 - **DOLPHIN Marine:** Baby Dolphin – Sinus – Sirius – Super AV **HIDROMARINE:** DM 17 – DM 25

INDUSTRI MOTOR: 3KC1M - **LOMBARDINI:** LDW401M/402M – LDW502/602M – LDW702M – LDW 903M LDW 1204M - **RUGGERINI:** MM250 – RM 270

VOLVO PENTA: AQ95 – AQ95A – AQ110 / AQ 115 A / B – AQ120 B – AQ 125A / B – AQ 130 – AQ 130A / B / C / D – AQ140 – BB100 – BB115 – BB115B / C – MB16A – MB18 – MB18F – BB-30 – MB 30 – MB20A / B / C – MD3B – MD17 C / D – MD 2010 A / B / C – MD 2020 A / B - **829895-2**

WATERMOTA: Sea Wolf 40 – Sea Tiger 50

POMPE A GIRANTE ELASTICA PER RAFFREDDAMENTO MOTORE
FLEXIBLE IMPELLER MARINE ENGINE COOLING PUMP

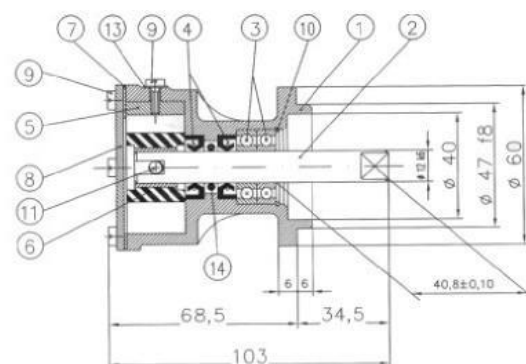
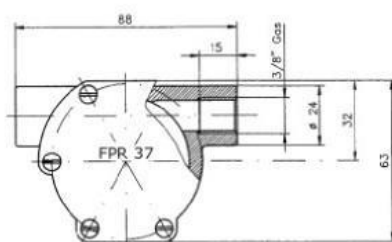
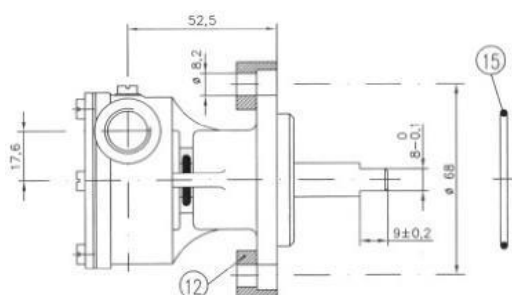


TYPE: **FPR 037** – CODE: **0539**

TYPE: **FPR 037 L** – CODE: **0518**



	700 rpm	900 rpm	1400 rpm	1750 rpm	2000 rpm	2500 rpm
Bar	L/min	L/min	L/min	L/min	L/min	L/min
0	13	16	23	25,5	28	32
0,3	11	12	20	22,5	25	29
0,6	9	11,5	16,5	19	21	26
1	5	10,5	15	18	20	25



TYPE: **FPR 037** – CODE: **0539**

***Service KIT: 5331**

JOHNSON: F4B-9-10-35127-1-2

TYPE: **FPR 037 L** – CODE: **0518**

***Service KIT: 5332**

JABSCO: 29470-2031C

PZ	Q.	Descrizione	Description	Cod
15	1	O-ring	O-ring	5220
14	1	O-ring	O-ring	5201
13	1	Rondella	Washer	1435
12	2	Staffa	Clip	1434
11	1	Vite	Screw	1433
10	1	Seeger	Retaining ring	1629
*9	7	Vite	Screw	1406
*8	1	Coperchio	Cover	1839
*7	1	Guarnizione	Gasket	1960
*6	1	Girante	Impeller	1379
*5	1	Camma	Cam	1814
*4	2	Anello di	Lipseal	5105
3	2	Cuscinetto	Ball bearing	2056
2	1	Albero	Shaft	1905
1	1	Corpo pompa	Body	2014

PZ	Q.	Descrizione	Description	Cod
15	1	O-ring	O-ring	5220
14	1	O-ring	O-ring	5201
13	1	Rondella	Washer	1435
12	2	Staffa	Clip	1434
11	1	Vite	Screw	1433
10	1	Seeger	Retaining	1629
*9	7	Vite	Screw	1406
*8	1	Coperchio	Cover	1839
*7	1	Guarnizione	Gasket	1960
*6	1	Girante	Impeller	1392
*5	1	Camma	Cam	1815
*4	2	Anello di	Lipseal	5105
3	2	Cuscinetto	Ball bearing	2056
2	1	Albero	Shaft	1905
1	1	Corpo pompa	Body	2014

APPLICAZIONI:

ENGEL MAX: A 560 /2W – FK3 – FK850 – M560/2 – M560/2W

FARIMANN: FK3

FISCHER PANDA: PM S8000 NE – PS 1200

MASE (20766): IS 6.1 – IS 7.1 – IS 9.1 – IS 9.6

MITSUBISHI: K2C – K3E – K3M – K4E

NANNI: Su base KUBOTA – 2.60HE | 3.90HE – 3.90M – FK3 / 2.60 HE -FK3 / 3.90 HE – P30 – R30 – S 30

POMPE A GIRANTE ELASTICA PER RAFFREDDAMENTO MOTORE FLEXIBLE IMPELLER MARINE ENGINE COOLING PUMP

TYPE: **FPR 015** – CODE: **0535**

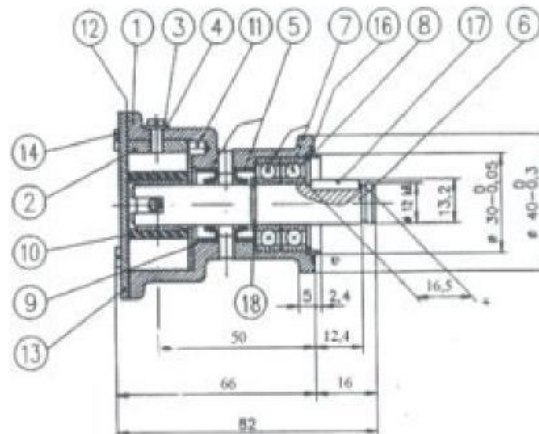
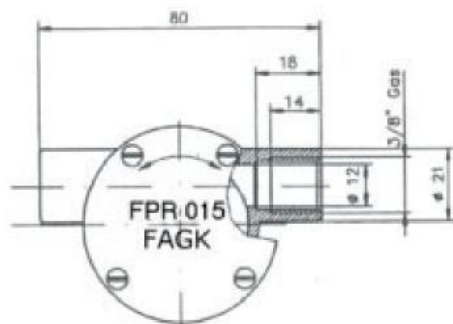
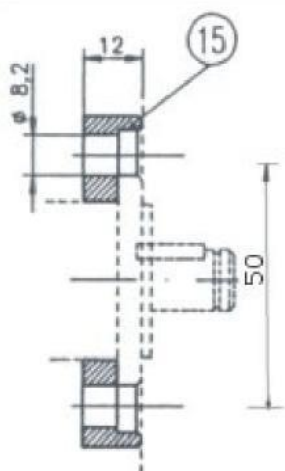
*Service KIT: **5326**

JABSCO : 29300-2401C

JOHNSON : F35B-9-10-35187-1



	700 rpm	900 rpm	1400 rpm	1750 rpm	2000 rpm	2500 rpm
Bar	L/min	L/min	L/min	L/min	L/min	L/min
0	7	9	11	13	14	18
0,3	6	8	10	11	13	17
0,6	5	7	9	10	11,5	15
1	4	6	8	9	9,5	12



APPLICAZIONI

BUKU	: DV 7 ME
DINAMICA	: MINI 40 R 50 3,5 KW – MINI R 60 3,6 KW
ENGEL MAX	: A 560 – A 560/1 – K 34 A – K 34 M – FK 600 M
ENTEC WEST USA	: K 34 (4,2 KW)
FARIMANN	: K 24 M – K 34 – FK 2 – FK 3 – Motore 18W430
I M L	: 15W – 18 W – 43 W
KOHLER	: 3,5 EPOZ / 3,2 KW – 4EOZ / 3,5 KW
FISCHER PANDA	: PMS 4000 S– PMS 4200 – PMS 4800 I
VETUS	: F 1.2 – F 1.03
V.T.E	: Paguro 3000 – Paguro 4000 – Paguro 5000

PZ	Q.	Descrizione	Description	Cod
18	1	Seeger	Retaining Ring	1613
17	1	Chiavetta	Key	1436
16	1	O-Ring	O-Ring	5202
15	2	Staffa	Clip	1434
*14	4	Vite	Screw	1406
13	1	Coperchio	Cover	1840
*12	1	Guarnizione	Gasket	1954
11	1	Spina	Pin	1522
*10	1	Girante	Impeller	1395
9	1	Rasamento	Shim	1800
8	1	Seeger	Retaining rim	1629
7	2	Cuscinetto	Ball bearing	2056
6	1	Albero	Shaft	1912
*5	2	Anello di tenuta	Lipseal	5105
4	1	Rondella	Washer	1435
*3	1	Vite	Screw	1406
*2	1	Camma	Cam	1811
*1	1	Corpo Pompa	Body	2013

POMPE A GIRANTE ELASTICA PER RAFFREDDAMENTO MOTORE FLEXIBLE IMPELLER MARINE ENGINE COOLING PUMP



TYPE: **FPR 040** – CODE: **0530** – Service KIT: **5334**

JOHNSON: F5B-9-10-24119 - **JABSCO** :3270-271 / 1951 - Con anello di tenuta

JOHNSON: F5B-9002- 10-24119-2 - **JABSCO** :3270-200 - Con anello di tenuta

JOHNSON: F5B-9022- 10-24119-3 - **JABSCO** :3270-200 - Con anello di tenuta

JOHNSON: F5B-9006- 10-24119-7 - **JABSCO** :3270-2401- Con anello di tenuta

JOHNSON: F5B-9007-10-24119-8 - **JABSCO** :3270-2101 - Con anello di tenuta

JOHNSON: F5B9-10-24035-2 - **JABSCO** :3270-200 - Con anello di tenuta

TYPE: **FPR 041** - CODE: **0529** – TM – **LIP SEAL**

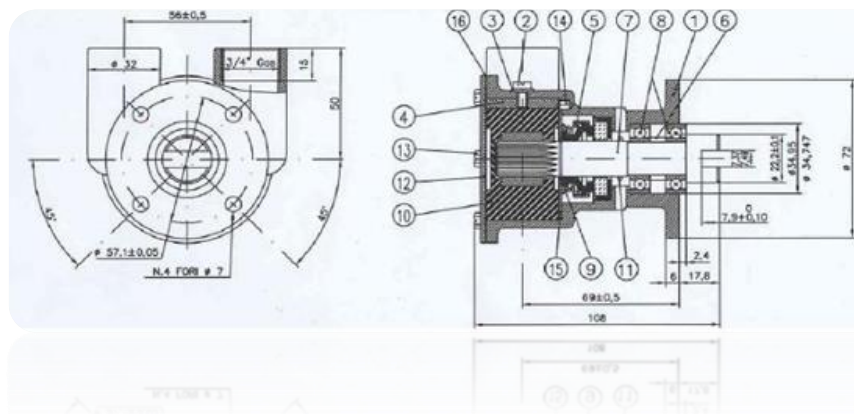
*Service KIT: **5334**

JOHNSON: F4B-9-10-35098-1-4 - **JABSCO** :29470-2231-ex 9900



*Aluminum-Bronze Body

Bar	700 rpm L/min	900 rpm L/min	1400 rpm L/min	1750 rpm L/min	2000 rpm L/min	2500 rpm L/min
0	21	27	41	49	56	60
0,3	19	25	38	47	54	57
0,6	18	23	37	42	48	55
1	16	20	32	36	41	48
1,4	10	13	25	29	34	40



PZ	Q.	Descrizione	Description	Cod
*16	1	Guarnizione	Basket	1965
15	1	Rasamento	Shim	1801
14	1	Spina	Pin	1522
*13	6	Vite	Screw	1406
*12	1	Coperchio	Cover	1838
11	1	Anello-OR	O-Ring	5204
*10	1	Girante	Impeller	1393
9	1	Seeger	Retaining ring	1616
8	2	Cuscinetto	Ball bearing	2066
7	1	Alberto FPR 040	Shaft	1913
6	1	Distanziale	Spacer	2307
*5	1	Tenuta Meccanica	Mechanical seal	1135
*4	1	Camma	Cam	1818
3	1	Rondella	Washer	1440
*2	1	Vite per camma	Screw	1441
1	1	Corpo pompa	Body	2012

APPLICAZIONI: POMPA TIPO FPR040 CODICE: 0530

AIFO IVECO-FPT: CO3M / SM—CP3M—B804AM / AM-8041M / SM-8041SRM -806AM / M – 8140 SRM 15 -8141 SM 08 – 8141SM

ARONA: AD395-AD4100M — **BARNES:** 2.2-2.5 — **BMW:** B130 — **BRITISH LEYLAND:** 2.2-2.5 — **C. POWER:** 4.120

CT MARINE: 2.2-2.5 4.107-4.108-CT115-CT60D-LD115-LO60 — **DETROIT D.:** M90 NA 4.236 – 500 S M50/4 Cil. — **DOLPHIN MARINE:** Hadar II-Vega II

DTN Dieseltechnic: X4M88A — **F.J. FAY:** V1902BG2 — **FORD:** FSD 425A TRANSIT – Lehman 4D50 – 4D61 — **HIGH POWER Marine:** 2.5 – 4-108

F.J. FAY: V1902BG2 — **FORD:** FSD 425A TRANSIT – Lehman 4D50 – 4D61 — **HIGH POWER Marine:** 2.5 – 4-108 — **KITT Motor:** KITT 2000/3000

MATRA: XD2P – X2PS TURBO — **MERCEDES:** OM 636 — **NANNI:** MB180 – MB220 – MB300 – 4,110L – 4.180 — **RUGGERINI:** RDM901 – RDM902

PERKINS: 3.100HE – 4.108 – 4.108LL – 4.236LL – 4.238LL – 4.195HE – 4-150HE – 4.180HE — **SAME-ADIM:** 1003W – 1004W

SABB: 2J – L2.093 – L3.139 – L4.186 – M2.210 – M4.295 — **SCAM:** SD 470 – SD 480 -SD4.100 T — **SOCOGES Gimotors:** G314-G316-G417-G418-G420

TEMPEST: Commander 2.5LR / 50 – Sea Prince 3000S — **THORNYCROFT:** 152 – 154 – 138 – 160 — **UNION Motori:** XD2P — **DJ:** 09140

V M: 103MH11 – 103MH11/SV – 104MH11 – 106MH11 106MH11 /SV – 106DAN M --804M – 806M — **VYTHOULCAS:** K3E – K3H – K3M

APPLICAZIONI: POMPA FPR 041 CODICE: 0529 – JABSCO: 3270-261

HERALD Marine: 4.50 — **MOT.BALTEA:** VM-Italy: 413 M – 613 M – 14.5 — **NANNI:** 4.110 L – 4.110 HE – 4.110HLE – 1.180HE

M W M: D 208 – D225 /4/6 – TD226 / 3 /4/6 – TD228/6 D2086 – KD1105 – KD105 Z / D / S / V – TKD1105 VS

SCHWARTING: S615 – S616 – S617 – S617 A – S636

TEMPEST: Commodore 53

POMPE A GIRANTE ELASTICA PER RAFFREDDAMENTO MOTORE FLEXIBLE IMPELLER MARINE ENGINE COOLING PUMP

TYPE: **FPR 014** – CODE: **0531**

***Service KIT: 5326**

JABSCO: 29300-2201 – ex 11260 - 2101

JOHNSON: F35B-9-10-35157-1-3-6-8-Cam=3,4

JOHNSON: F35B-9-10-35157-2-4-7- Cam=2,3

***FPR 014 – CODE 0531 – SUBSTITUTES JOHNSON:**

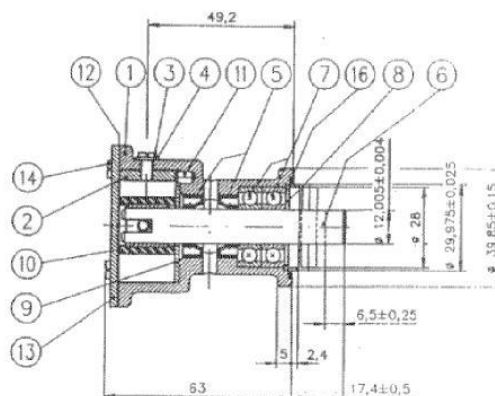
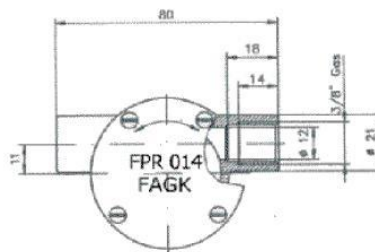
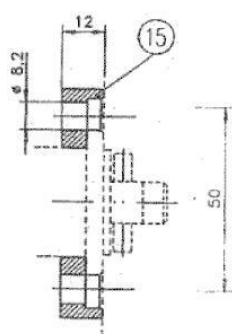
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F35 B9-10-35088-1 — JABSCO 29300-2201C F35B-9-10-35118-1 — JABSCO 29300-2101C F35B-9-10-35280-1

JABSCO 11260-1101C F35B-9-10-35412-1 — JABSCO 29300-2101C F35B-9-10-35934-1 — JABSCO 29470-2231



	700 rpm	900 rpm	1400 rpm	1750 rpm	2000 rpm	2500 rpm
Bar	L/min	L/min	L/min	L/min	L/min	L/min
0	7	9	11	13	14	18
0,37	6	8	10	11	13	17
0,6	5	7	9	10	11,5	15
1	4	6	8	9	9,5	12



APPLICAZIONI

ARONA	: AD190 – AD195M - AD295M
BUKH	: DV 8 ME/SME – DV10 LME/LEME/M – D18 LME/LSME/ - DV 20 ME/SME – DV 24 ME/SME
DUCATI	: DM286 – GAE186 – IS 9 – ES11 – ES16 – ES20 ES184 – ES186 – ES284 - ES286
FARIMAN	: K 30M - (JABSCO 11260-1101)
FREDRIKSTAD M	: S 15
GRASSETTI	: FM 10
HYDROMARINE	: DM 12
MONDALS	: D8 – MB10
PERKINS	: 1,25 – H1.36 Germany CRD100 /951-PM100/2-PM105/2-PM 200 RD100/2-MM150-MM191-RM 90 RD100/951 RDM901-RM80
RUGGERINI	: 10 PS
TILBURBASTIANE	: 5 PS
N VARIAN	: 5 PS
VOLVO P	: MB10A /B- MB11A – MD1/A/B – MD1KHD MD2HY – MD2 - MD2B - MD2BHY – MD5A MD5B MD5C - MD6A - MD6B - MD7A -MD7B MD11C
YANMAR	: 2GF – 3GF
WEST Germany	: 8 ps

Pe	Qu	Descrizione	Description	Cod
16	1	O-ring	O-ring	5202
15	2	Staffa	Clip	1433
*1	4	Vite	Screw	1406
*1	1	Coperchio	Cover	1840
*1	1	Guarnizione	Gasket	1954
11	1	Spina per	Pin	1522
*1	1	Girante	Impeller	1395
9	1	Rasamento	Shim	1800
8	1	Seeger	Retaining	1629
7	2	Cuscinetto	Bearing	2056
6	1	Albero	Shaft	1911
*5	2	Anello di tenuta	Lipseal	5105
*4	1	Rondella	Washer	1435
*3	1	Vite	Screw	1406
*2	1	Camma	Cam	1811
1	1	Corpo pompa	Body	2013

POMPE A GIRANTE ELASTICA PER RAFFREDDAMENTO MOTORE FLEXIBLE IMPELLER MARINE ENGINE COOLING PUMP

TYPE: **FPR 039** – CODE: **0541**

***Service KIT: 5333**

POMPA JABSCO: 29470-2431

POMPA JOHNSON: F4B-9-10-35355-01

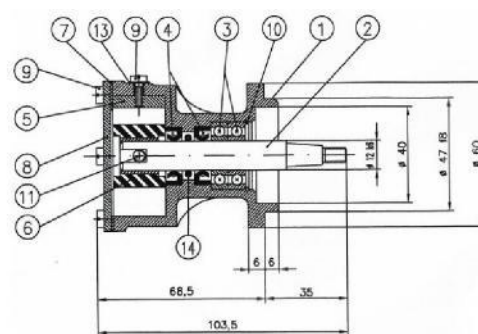
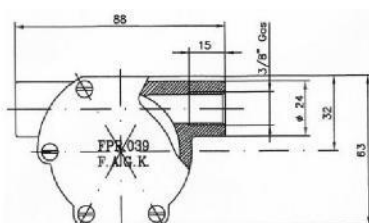
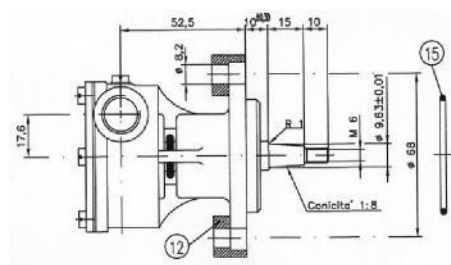
TYPE: **FPR 039L** – CODE: **0589**

***Service KIT: 5332**

POMPA JABSCO: 29470-2431C



	700 rpm	900 rpm	1400 rpm	1750 rpm	2000 rpm	2500 rpm
Bar	L/min	L/min	L/min	L/min	L/min	L/min
0	13	16	23	25,5	28	32
0,3	11	12	20	22,5	25	29
0,6	9	10,5	16,5	19	21	26
1	5	11,5	18	21	23	27



Pz	Q.	Descrizione	Description	Cod
15	1	O-Ring	O-Ring	5220
14	1	O-Ring	O-Ring	5201
13	1	Rondella	Washer	1435
12	2	Staffa Fissaggio	Clip	1434
11	1	Vite Per Girante	Screw	1433
10	1	Seeger	Retaining Ring	1629
*9	7	Vite	Screw	1406
*8	1	Coperchio	Cover	1839
*7	1	Guarnizione	Gasket	1960
*6	1	Girante	Impeller	1398
*5	1	Camma	Cam	1814
*4	2	Anello Di	Lipseal	5105
3	2	Cuscinetto	Ball Bearing	2056
2	1	Albero	Shaft	1906
1	1	Corpo Pompa	Body	2014

Pz	Q.	Descrizione	Description	Cod
15	1	O-Ring	O-Ring	5220
14	1	O-Ring	O-Ring	5201
13	1	Rondella	Washer	1435
12	2	Staffa Fissaggio	Clip	1434
11	1	Vite Per Girante	Screw	1433
10	1	Seeger	Retaining	1629
*9	7	Vite	Screw	1406
*8	1	Coperchio	Cover	1839
*7	1	Guarnizione	Gasket	1960
*6	1	Girante	Impeller	1392
*5	1	Camma	Cam	1814
*4	2	Anello Di	Lipseal	5105
3	2	Cuscinetto	Ball Bearing	2056
2	1	Albero	Shaft	3792
1	1	Corpo Pompa	Body	2014

APPLICAZIONI: POMPA TIPO FPR 039 CODICE: 0541

LOMBARINI: LDW 1503M / 2004M

V.T.E.: Paguro 16500 / 18000

APPLICAZIONI: POMPA TIPO FPR 039L CODICE: 0589

AIFO IVECO FPT: 4041M33-4041M48

LOMBARINI: LDW 1204 M/ 1503M / 1904M / LDW 502SD / 1404SD / 1904SD / 2204SD

V.T.E.: Paguro 6000 / 8000

POMPE A GIRANTE ELASTICA PER RAFFREDDAMENTO MOTORE FLEXIBLE IMPELLER MARINE ENGINE COOLING PUMP

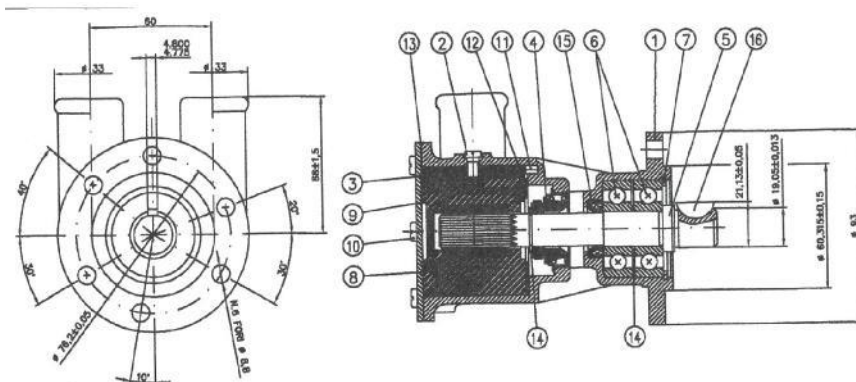
TYPE: **FPR 051** – CODE: **0544**

*Service KIT: **5339**

JABSCO: 29600-1001-In alternativa alla JABSCO: ex 9700-21
JABSCO: 29600-1001-In alternativa alla JOHNSON: F7B-9-10-24014
IVECO FPT: 8110565



	700 rpm	900 rpm	1400 rpm	1750 rpm	2000 rpm	2500 rpm
Bar	L/min	L/min	L/min	L/min	L/min	L/min
0	50	55	85	90	130	150
0,3	48	51	81	100	120	155
0,6	44	47	78	97,5	112	140
1	40	44	73	92	105	131
1,5	35	38	67	87	100	125
2,0	30	35	62	80	95	135



APPLICAZIONI		Pe	Qu	Descrizione	Description	Cod
AIFO IVECO ITALIA	:	16	1	CHIAVETTA	Key	1442
	:	*1	1	ANELLO DI	Lipseal	5109
	:	14	2	SEEGER	Retaining ring	1616
	:	*1	1	GUARNIZIONE	Gasket	1966
	:	12	1	RASAMENTO	Shim	1802
	:	11	1	SPINA	Pin	1522
	:	10	6	VITE	Screw	1441
	:	*9	1	COPERCHIO	Cover	1837
	:	*8	1	GIRANTE	Impeller	1232
	:	7	1	SEEGER	Retaining ring	1647
AILSA CRAIG	:	6	2	CUSCINETTO	Ball bearing	2068
	:	5	1	ALBERO	Shaft	1916
	:	*4	1	TENUTA	Mechanical	1140
	:	*3	1	CAMMA	Cam	1821
	:	*2	1	VITE	Screw	1441
	:	1	1	CORPO POMPA	body	2017
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POMPE A GIRANTE ELASTICA PER RAFFREDDAMENTO MOTORE FLEXIBLE IMPELLER MARINE ENGINE COOLING PUMP

TYPE: **FPR 046** – CODE: **0543** – **TM** – **LIP SEAL**

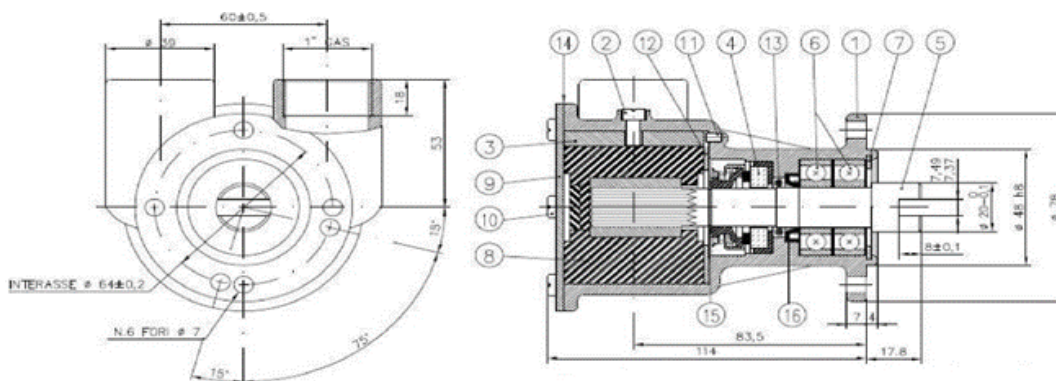
*Service KIT: **5337**

JOHNSON: F7B-9-10-24127
JOHNSON: F7B-9-10-24127
JOHNSON: F7B-9-10-24127
JOHNSON: F7B-9-10-24127
JOHNSON: F7B-903-10-24431-01

JABSCO: 23430-1701
JABSCO: 23430-1001
JABSCO: 23430-1041
JABSCO: 23430-1051



	700 rpm	900 rpm	1400 rpm	1750 rpm	2000 rpm	2500 rpm
Bar	L/min	L/min	L/min	L/min	L/min	L/min
0	40	55	85	118	150	165
0,3	24	45	84	105	142	160
0,6	22	42	78	104	135	158
1	20	41	68	100	122	142
1,5	15	30	50	80	90	12



APPLICAZIONI			Pz	Q.	Descrizione	Description	Cod
AIFO IVECO FPT	:	503 – 504 – 505 – 513 – 520 S 521 / S	16	1	Anello di tenuta	Lip seal	5173
			15	1	Seeger	Retaining ring	1616
			*1	1	Guarnizione	Gasket	1966
			13	1	O_ring	O-ring	5204
BMW	:	B 150 – D 530NT – D 636 TA	*1	1	Rasamento	Shim	1802
			11	1	Spina	Pin	1522
			*1	6	Vite	Screw	1441
			*9	1	Coperchio	Cover	1837
BAUDOUIN	:	AD 106 AN – A4S 108 / 4 4S 108 S – GD 106 4S 108 SR – 6D 106 S – 6R 120SR 6R 120 ASN – 6B 2650 – 6R 120SR 6R 120 S	*8	1	Girante	Impeller	1394
			7	1	Seeger	Retaining ring	1630
			6	2	Cuscinetto	Ball bearing	2065
			5	1	Albero	Shaft	1915
CUMMINS	:	V504 – V504 M – 6B 5.9 M 6C 8.3 M / 50 M	*4	1	Tenuta	Mechanical seal	1135
			33	1	Camma	Cam	1821
			*2	1	Vite	Screw	1441
			1	1	Corpo pompa	Body	2011
DRINKWARD	:	OM 616 – OM 617 4DQ50 – S4E2 – S6E2					
EKETROEM	:	F2803EBG HPE 150 – HPE170 – HPE 190 HPE 225 – HPE 250 – HPE 110JD					
F. J. Fay	:	OM 616 – OM617 D2.8 D Tronic – D 3.6 L – D 4.2 LD D 7.3 LD Tronic – D636TA					
F. N. M.	:	S4E2 – S6E2 – 4AD50 4.220 HE – 4.240 TDI – 4.340 TDI – 4.440HE 4.440 ESC – 5.280 HE – 6.250 HE – 6.280HE OM 636 – OM 617					
MERCEDES	:	SW 18400 -23KVA / LATE SW 2000-25KVA / LATE SW 24000-30KVA SW 36000-45KVA / SW 42000-52,5KVA					
MERCURISER	:	MDC 24 – MDC 24T MB 616 / 4 – MB 616 / 6 – SM 616 / 6 S 617 – S 617 A – S 636					
MITSUBISHI	:	MO 54 NA33 – MO 174 V40 HR480HT / HR488HT -HT9 / HR492HR-HT9 / HR494H10 / HR592HT-HT9 / HR688NHT9 / HR692HT9 / MD704LI / 1154 / 1156					
NANNI	:	WM 68 (V3300) / WM 85T (3300 T)					
SEA WASP	:						
SOCOGES Gi	:						
SOLE'	:						
SCHWARTING	:						
STEYER	:						
VM -Motori	:						
W M (Motori Kubota)	:						

POMPE A GIRANTE ELASTICA PER RAFFREDDAMENTO MOTORE
FLEXIBLE IMPELLER MARINE ENGINE COOLING PUMP



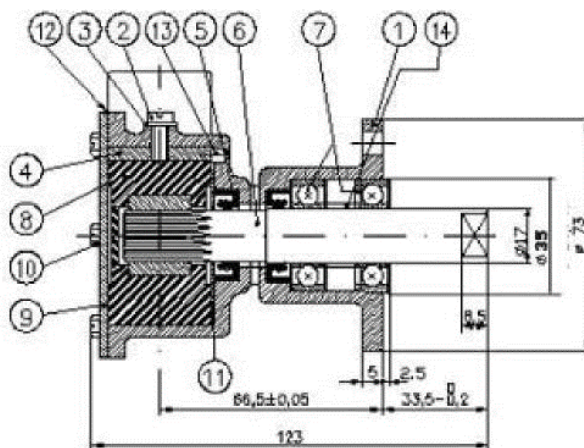
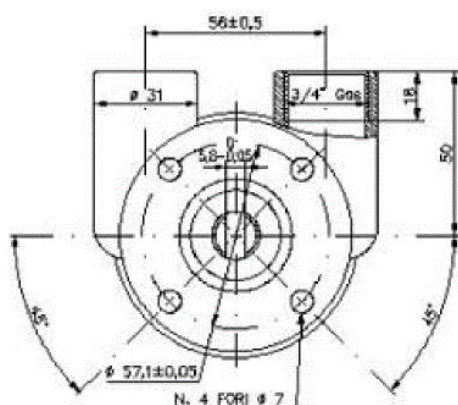
TYPE: **FPR 043** – CODE: **0556**

***Service KIT: 5335**

JOHNSON: F5B9-10-24334 -01 - Cam. 5 mm - Con anelli di tenuta

JOHNSON: F5B9-10-24334- 02 - Cam. 4 mm - Con anelli di tenuta

	700 rpm	900 rpm	1400 rpm	1750 rpm	2000 rpm	2500 rpm
Bar	L/min	L/min	L/min	L/min	L/min	L/min
0	21	27	41	49	56	60
0,3	19	25	38	47	54	57
0,6	18	23	37	42	48	55
1	16	20	32	36	41	48
1.4	10	13	25	29	34	40



APPLICAZIONI

BETA Marine	:	207-07415 – Motori 43 – 50 – 60 BF 2803 - BV 1605- BV 1903 BV 2203 – BV 3300
NANNI	:	Codice 970-301725 3,110 HE – 4.110 HE – 4.150 HE 4.190 HE N4.38 -N4.40 – N4.43 – N4,200HE
DIECON	:	SD 23 – 3TNE78 – 3TNE 84 3TNE 88 - 4TNE98 D1105 – D1703 – F2803 - V2203
W M -Diesel	:	WM 22 (D 905) - WM 28 (D1105)
KUBOTA	:	WM 35 (V1505) - WM 50 (V 2203)

Pe	Qu	Descrizione	Description	Codice
15	1	O-ring	O-ring	5204
14	1	Distanziale		3345
13	1	Spina	Spring pin	1522
*1	1	Guarnizione	Gasket	1965
*1	1	Rasamento	Shim	1801
*1	6	VITE M 4x8 UNI	Screw	1406
*9	1	Coperchio	Cover	1838
*8	1	Girante	Impeller	1393
7	2	Cuscinetto	Ball bearing	2066
6	1	Albero	Shaft	1930
*5	2	Anello di tenuta	Lipseal	5109
*4	1	Camma	Cam	1818
3	1	Rondella	Washer	1440
*2	1	Vite per camma	Screw	1441
1	1	Corpo pompa	Body	2009

POMPE A GIRANTE ELASTICA PER RAFFREDDAMENTO MOTORE FLEXIBLE IMPELLER MARINE ENGINE COOLING PUMP

TYPE: **FPR 313** – CODE: **0604**

*Service KIT: **5344**

JOHNSON: FAB-903-10-13337-01

JOHNSON: F4B-903 -10-24509-01

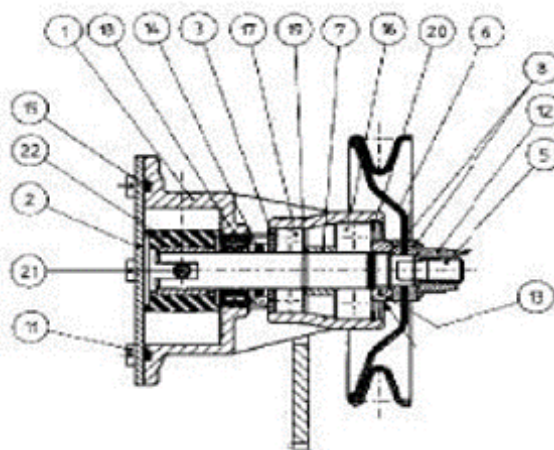
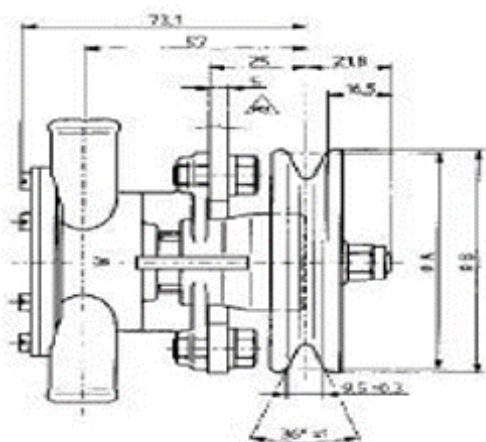
JOHNSON: F4B-902 -10-24509-02

A= Ø 87

B= Ø 90



	700 rpm	900 rpm	1400 rpm	1750 rpm	2000 rpm	2500 rpm
Bar	L/min	L/min	L/min	L/min	L/min	L/min
0	21	27	41	49	56	60
0,3	19	25	38	47	54	57
0,6	18	23	37	42	48	55
1	16	20	32	36	41	48
1,4	10	13	25	29	34	40



APPLICAZIONI: POMPA TIPO FPR 313S CODICE: 0605

*Pompa versione speciale con attacchi 1/4" gas

Motori: 2GM20 – 3GM30

APPLICAZIONI: POMPA TIPO FPR 313 CODICE: 0604

KOLER: 4CZ-6CZ-7,5R-4CCO-4CCFO-6EOD-7CCFO-8CCFO

KOLER: 11EFZ-12C-12,5CCO-13EOZ-13EFOZ

KOLER: 15EOZ-17EFOZD-17KW

YANMAR: 2GM-3GM-3GM-3Y M20-3Y M30-2YM-3YM

YANMAR: QM

Pe	Qu	Descrizione	Description	Cod
*2	1	Girante	Impeller	1379
21	6	Vite	Screw	1406
20	1	Seeger	Retaning	1632
19	1	Seeger	Retaning	1613
18	1	Anello tenuta	Lip seal	5105
17	1	Cuscinetto	Ball bearing	2056
*1	1	Cuscinetto	Ball Bearingl	2058
15	1	O-ring	O-ring	5218
*1	1	Oring	Oring	5201
13	1	Chiavetta	Key	1871
12	1	Dado	Nut	1496
11	6	Vite	Screw	1406
*1	2	Vite	Screw	1523
9	2	Rondella	Washer	1872
8	2	Rondella	Washer	1493
7	1	Distanziale	Spacer	3779
6	1	Puleggia	Pulley	3283
5	1	Albero	Shaft	3282
4	1	Staffa	Bracket	
3	1	Rasamento	Plate	
*2	1	Coperchio	Endcover	1838
1	1	Corpo pompa	Body	3246

POMPE A GIRANTE ELASTICA PER RAFFREDDAMENTO MOTORE **FLEXIBLE IMPELLER MARINE ENGINE COOLING PUMP**

TYPE: **FPR 012** – CODE: **0533**

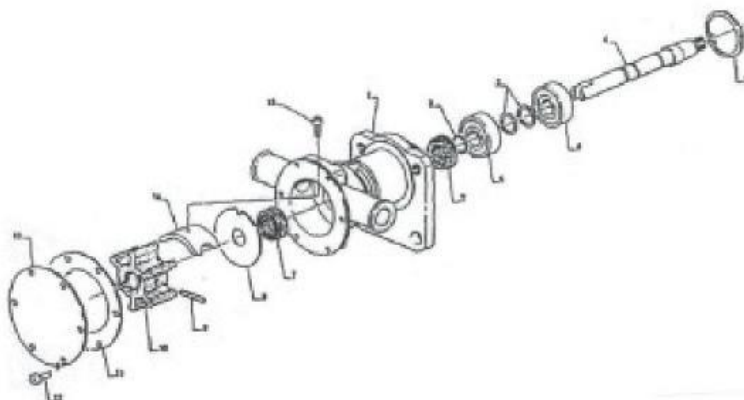
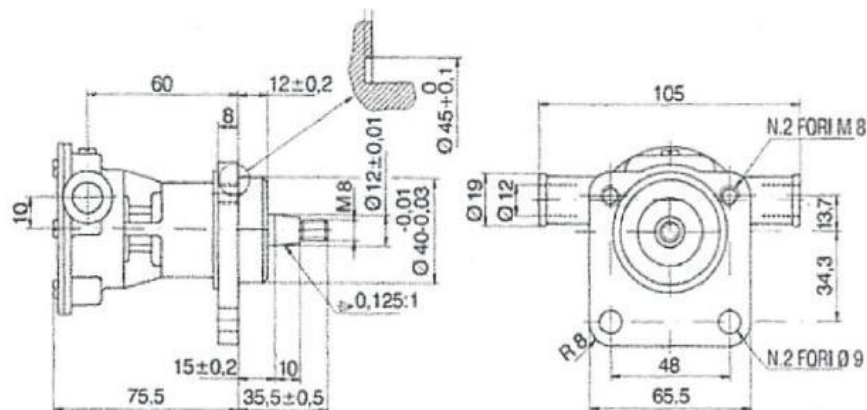
*Service KIT: **5328**

JABSCO: 29350-1001

JABSCO: 29350-1101



	700 rpm	900 rpm	1400 rpm	1750 rpm	2000 rpm	2500 rpm
Bar	L/min	L/min	L/min	L/min	L/min	L/min
0	9	11	15	16,5	18	23
0,3	8	9	13	14	15	21
0,6	7	8	12	13,5	14,5	20
1	4	6	8	9	23	15



APPLICAZIONI: POMPA TIPO FPR 012 CODICE: 0533

DETROIT DIESEL: Serie 100 – M 20

EMI: MDS 103.3RS – MDS 103.53 CR

PERKINS: M20 PERAMA

STAMEGNA: SMV 55 – SMV 80

Pe	Qu	Descrizione	Description	Cod
1	1	Corpo pompa	Pump body	2015
2	1	Guarnizione	O-ring	5201
3	2	Anello seeger	Snap ring	1612
4	1	Albero	Shaft	1909
5	1	Anello seeger	Snap ring	1628
6	2	Cuscinetto	Bearing	2054
*7	2	Anello di tenuta	Retaining ring	5102
8	1	Rasamento	Shim	1800
9	1	Grano	Screw	1433
*1	1	Girante	Impeller	1386
*1	1	Guarnizione	Basket	1956
*1	6	Vite	Screw	1406
*1	1	Coperchio	Cover	1834
*1	1	Camma	Sector	1811
15	1	Vite	Screw	1391

POMPE A GIRANTE ELASTICA PER RAFFREDDAMENTO MOTORE FLEXIBLE IMPELLER MARINE ENGINE COOLING PUMP

TYPE: **FPR 029** – CODE: **0581**

*Service KIT: **5331**

JOHNSON: F4B-9-10-35725-01/02 — GIRANTE / IMPELLER: Cod. 1379

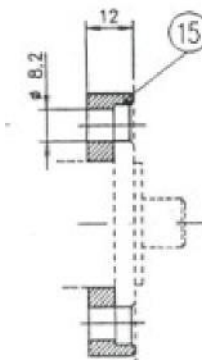
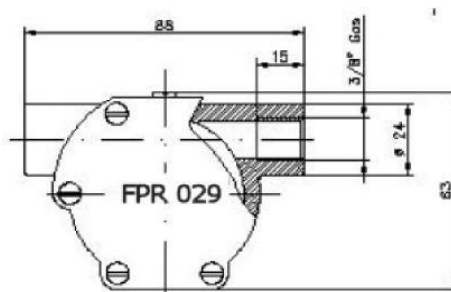
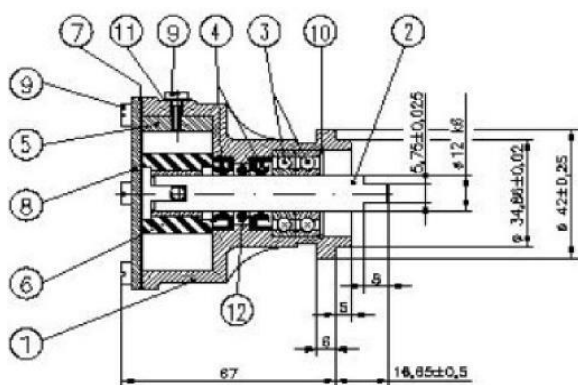
JOHNSON: F4B-9-10-24629-01 — GIRANTE / IMPELLER: Cod. 1379

JABSCO: 29460-1401/1201/1301 — GIRANTE / IMPELLER: Cod. 1379

JABSCO: 29460-2501 — GIRANTE / IMPELLER: Cod. 1379



	700 rpm	900 rpm	1400 rpm	1750 rpm	2000 rpm	2500 rpm
Bar	L/min	L/min	L/min	L/min	L/min	L/min
0	13	16	23	25,5	28	32
0,3	11	12	20	22,5	25	29
0,6	9	11,5	16,5	19	21	26
1	5	10,5	15	18	20	25



APPLICAZIONI		Pe	Qu	Descrizione	Description	Codice
DINAMICA KUBOTA ISUZU BETA MARINE BETA MARINE NANNI (Base KUBOTA) PANDA Gruppi PANDA Gruppi VETUS ZEIZE GERMANY	:	16	2	Raccordo	Hose connector	4801
		15	2	Staffa	Clip	1434
		12	1	O_ring	O-ring	5201
		11	1	Rondella	Washer	1435
		10	1	Seeger	Retaining ring	1629
		*9	7	Vite	Screw	1406
		*8	1	Coperchio	Cover	1839
		*7	1	Guarnizione	Gasket	1960
		*6	1	Girante	Impeller	1379
		*5	1	Camma	Cam	1814
		*4	2	Anello di tenuta	Lipseal	5105
		3	1	Cuscinetto	Ball bearing	2056
		2	1	Albero	Shaft	1932
		Mini 46 R 50 / 5KW – Mini 60 / 6KW Mini 80 R50 7KW – Mini 80 R 60 8KW BZ482 – BD722 – BD1005 – BV1305 BV 1903 – BV 2203 – BF 2803 B3XC1 BZ 482 – BD 3 – BD 4 – BD 662 BD722 – BD772 BD1005 BD1205 – BD1305 – BF2803 BV1305 – BV1505 – BV1903 – BV2803 970307808 – 2.45HE – 2.45HE/ECO 2.50HE – 3.75HE – N2.10 – N2.14 N3.21 Serie DC: PMS 4000 / 5000 / 6000 / 8000 / 10000 / 11000 / 22000 / 25000 / Serie Base PMS6500 / Serie Premium: PMS 8000 / 8 Mini / 10000 / 10 Mini / 12000 12 Mini / 13 Mini / 15000 / 16 – PMS 18 / 17 – 4 / 22 – 4 / 24 / 30 M 2.05 – L2 – L3 KUBOTA TWIN				

POMPE A GIRANTE ELASTICA PER RAFFREDDAMENTO MOTORE FLEXIBLE IMPELLER MARINE ENGINE COOLING PUMP

TYPE: **FPR 023** – CODE: **0523**

*Service KIT: **5331**

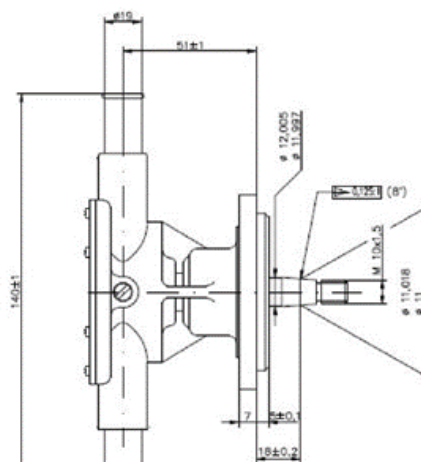
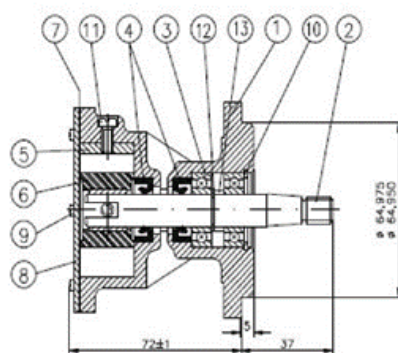
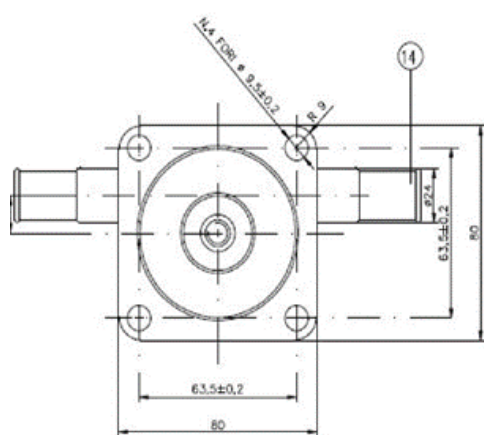
JOHNSON: F4B-903-10-24465-01 — CAM. 4 mm

JOHNSON: F4B-903-10-24752-0

JABSCO: 29450-1701-EX 1101 — CAM. 4 mm



	700 rpm	900 rpm	1400 rpm	1750 rpm	2000 rpm	2500 rpm
Bar	L/min	L/min	L/min	L/min	L/min	L/min
0	13	16	23	25,5	28	32
0,3	11	12	20	22,5	25	29
0,6	9	11,5	16,5	19	21	26
1	5	10,5	15	18	20	25



APPLICAZIONI		Pe	Qu	Descrizione	Description	Codice
DUFFIELD G & M PLANT PERKINS PERKINS PERKINS STAMEGNA VOLVO PENTA	: MC 42 – 3HD 46	14	2	Raccoerdo	Hose connector	4801
	: 4MDP	13	1	Distanziale	Clip	3288
	: M25 – M30 – M3HD 20 – M35 – M40 (29450-1101)	12	1	O_ring	O-ring	1613
	: MC 42 – (29450-1201)	*1	1	Vite	Screw	1406
	: 3HD46 – M50 – M60 – M80T (29450-1201)	10	1	Seeger	Retaining ring	1629
	: SM40 – SM70 – SM160 – SM180 SMV35	*9	6	Vite	Screw	1406
		*8	1	Coperchio	Cover	1839
		*7	1	Guarnizione	Gasket	1960
		*6	1	Girante	Impeller	1379
		*5	1	Camma	Cam	1814
	: MD 2030 A / B / C – MD 2040 A / B / C / D – (Codice: Volvo Penta 3593655)	*4	2	Anello di tenuta	Lipseal	5105
		3	1	Cuscinetto	Ball bearing	2056
		2	1	Albero	Shaft	2030
		1	1	Corpo pompa	Body	3275

POMPE A GIRANTE ELASTICA PER RAFFREDDAMENTO MOTORI FLEXIBLE IMPELLER MARINE ENGINE COOLING PUMP

TYPE: FPR 049 – CODE: 0560

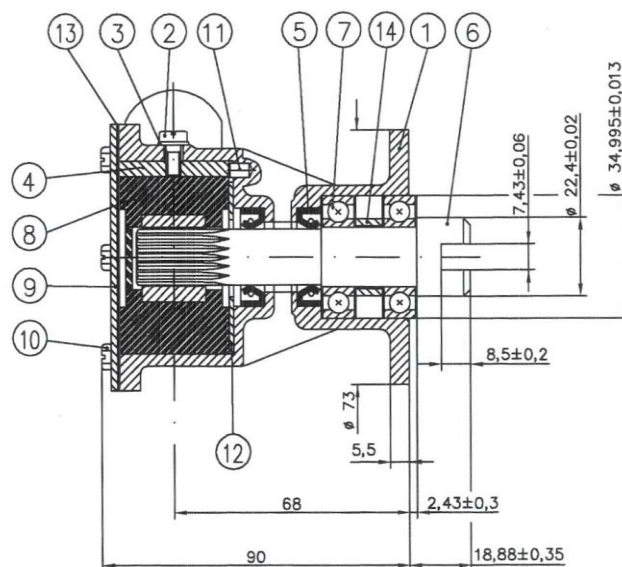
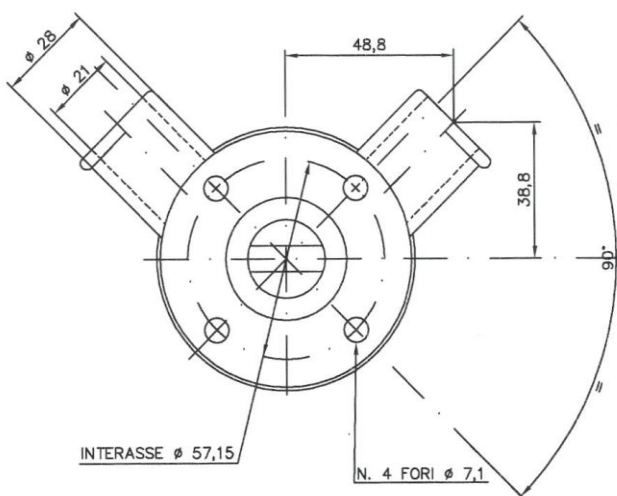
*Service KIT: 5335

JOHNSON: F5B-9-10-24119-2

JABSCO: 29500-1001 — EX 3270-200 / 3270-241



	700 rpm	900 rpm	1400 rpm	1750 rpm	2000 rpm	2500 rpm
Bar	L/min	L/min	L/min	L/min	L/min	L/min
0	21	27	41	49	56	60
0,3	19	25	38	47	54	57
0,6	18	23	37	42	48	55
1	16	20	32	36	41	48
1,4	10	13	25	29	34	40



APPLICAZIONI

AIFO IVECO FPT

: CO3M – CO35M – CP3M – Serie 804
806 / 8031M06 – 8041 – 8041 SM05
8041 M09 – 8041 M55 – 8061 M / M55
8061 SM20 – 8061SRM-8141 SM00
8141 SM11

LANCING Marine

: 2.4 - 4.2 – 4.203 – BMC2.2 – BMC2.5
BMC3.4 – BMC3.8 – BMC5.1

MITSUBISHI

: S6E2 – K3E – K3EH – K3EM

NANNI

: MB180 – MB300

PERKINS

: 3.152 - 3.1524 – 4.99 – 4.107

POWER Marine

: 4.108 M – 4.108 LL – PRIMA 4.99

SABB Norway

: M4.236 LL – 4.238 LL – 6.354 M

SOLE' Diesel

: MB 636 – SM 636 – 4.108 – Mini 50 Turbo -4 Cil.

STAMEGNA

: SM 400 (Perkins M4.236)

TEMPEST

: Commander 2.5HX – 50HX – Sea Prince 3000S – 4 / 54 – 4-58 / 4 / 80 – 6 / 120

V M

: 103MH – 104MH – 106MH – 116 DAN/M Serie 804M – 806M

VOLVO PENTA

: MD 22 - M22L

Pe	Q	Descrizione	Description	Codice
14	1	Distanziale	Spacer	1147
13	1	Guarnizione	Gasket	1965
12	1	Rasamento	Shim	1801
11	1	Spina	Pin	1522
10	6	Vite	Screw	1406
9	1	Coperchio	Cover	1838
8	1	Girante	Impeller	1393
7	2	Cuscinetto	Ball	2066
*6	1	Albero	Shaft	1944
*5	2	Anello	Lipseal	5109
*4	1	Camma	Cam	1818
*3	1	Rondella	Washer	1440
*2	1	Vite	Screw	1441
1	1	Corpo pompa	Body	2018

POMPE A GIRANTE ELASTICA PER RAFFREDDAMENTO MOTORI FLEXIBLE IMPELLER MARINE ENGINE COOLING PUMP

TYPE: **FPR 050/F** – CODE: **0532**

*Service KIT: **5338**

JOHNSON: F7B-9-10-24014-1 / JABSCO: 9700-21-Cam 1/1

JOHNSON: F7B-9-10-24014-4-Cam 2/3

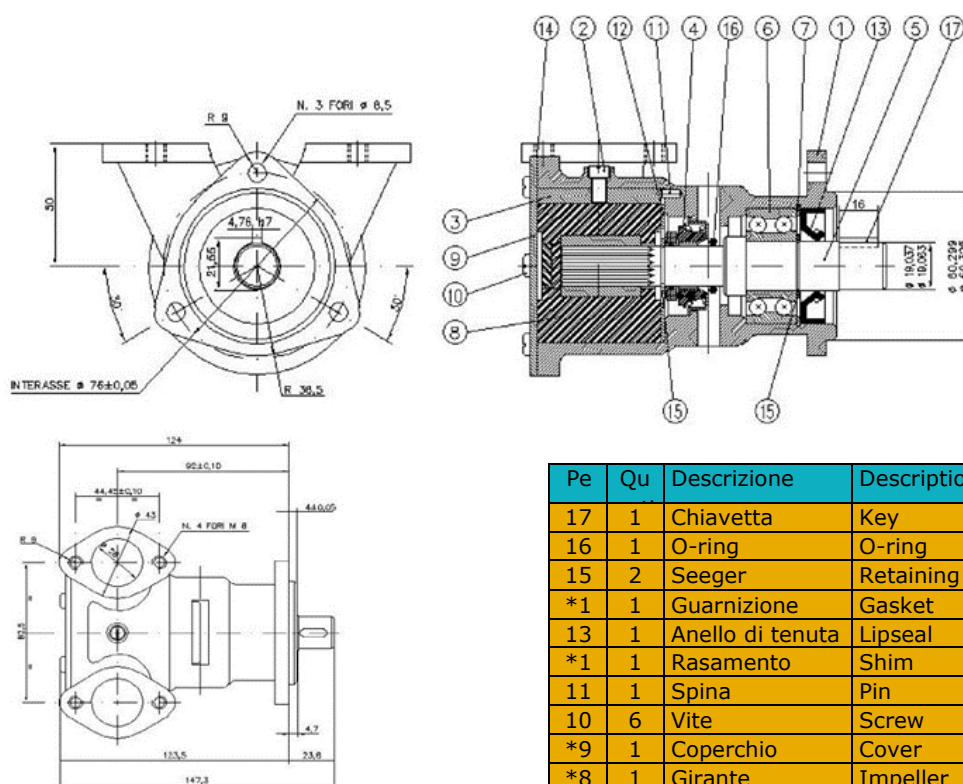
JOHNSON: F7B-9-10-24183-1

JABSCO: 9700-01 / 04 / 151-Cam 2/3

*NEW: JABSCO: 29600-1001 – FAGK: **0544**



	700 rpm	900 rpm	1400 rpm	1750 rpm	2000 rpm	2500 rpm
Bar	L/min	L/min	L/min	L/min	L/min	L/min
0	50	55	85	90	130	170
0,3	48	51	82	101	122	156
0,6	45	47	76	98	113	141
1	40	45	74	92	105	132
1,5	35	38	68	88	101	126



Pe	Qu	Descrizione	Description	Codice
17	1	Chiavetta	Key	1442
16	1	O-ring	O-ring	5204
15	2	Seeger	Retaining ring	1616
*1	1	Guarnizione	Gasket	1966
13	1	Anello di tenuta	Lipseal	5114
*1	1	Rasamento	Shim	1802
11	1	Spina	Pin	1522
10	6	Vite	Screw	1441
*9	1	Coperchio	Cover	1837
*8	1	Girante	Impeller	1394
7	1	Seeger	Retaining ring	1647
6	2	Cuscinetto	Ball bearing	2071
5	1	Albero	Shaft	1941
*4	1	Tenuta	Mechanical seal	1140
*3	1	Camma	Cam	1821
*2	1	Vite per camma	Screw	1441

APPLICAZIONI

AILS A CRAIG	:	RA6
SAAB SCANIA	:	D5 – D55
TEMPEST	:	Sea Lord 5,66
LEYLAND THORNYCROFT	:	230 – 345–400–400T–500
HERALD Marine	:	6.150 – 6.170 – 6.178T – Magnum 300
O MD	:	5849M1N – 5851M1N – 5860M1N
PERKINS	:	6.236 – 6.305M – 6.354 /T/H/HT/LL – 6.3540M – 6.3543M – 6HD135 – 6HD150
	:	PRIMERA MD42
MAN	:	D0 823GLE40 / MIL
VALMET OY FIL.	:	311 – 411 – 411CM – 411CSM
V M	:	114MH – 116MH
AIFO IVECO FPT	:	503 – 504 – 505 – 513 – 5205 – 521 – 521S – CO3M – CO35M – CP3M – CP35M
	:	OMCP – 806SM – 8060M – 8060SDM – 8061 8141M / SRM – 821 M / SM – 8210
	:	8220 – 828M – 836MTCA – 8361M – 8361SM – 8361SRM – NUOVA PROPOSTA: 29600

POMPE A GIRANTE ELASTICA PER RAFFREDDAMENTO MOTORI FLEXIBLE IMPELLER MARINE ENGINE COOLING PUMP

TYPE: FPR 052 – CODE: 0596

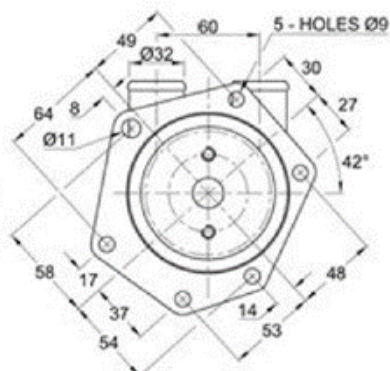
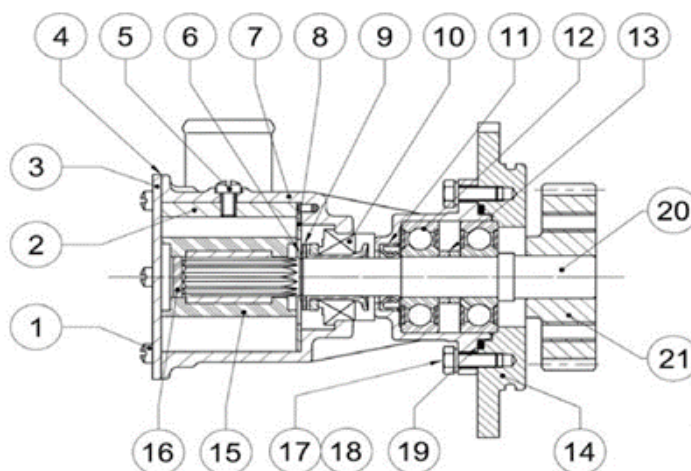
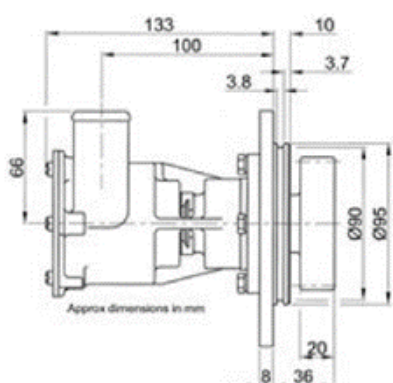
*Service KIT: 5339

JABSCO: F7B-9-10-24183-1

JABSCO: 9700-01 / 04 / 151-Cam 2/3



	700 rpm	900 rpm	1400 rpm	1750 rpm	2000 rpm	2500 rpm
Bar	L/min	L/min	L/min	L/min	L/min	L/min
0	50	55	85	90	130	170
0,3	48	51	82	101	122	156
0,6	45	47	76	98	113	141
1	40	45	74	92	105	132
1,5	35	38	68	88	101	126
2,0	30	35	62	80	95	135



Pe	Qu	Descrizione	Description	Codice
21	1	Ingranaggio	Gear	Client
20	1	Albero	Shaft	3297
19	1	Anello or	O-ring	5266
18	6	Rosetta elastica	Grower	1872
17	6	Viti	Screw	2378
16	1	Tappo	Plug	1977
*1	1	Girante	Impeller	1232
14	1	Flangia	Plate	Client
13	1	Distanziale	Spacer	3356
12	2	Cuscinetti	Bearing	2068
*1	1	Anello tenuta	Seal	5109
*1	6	Tenuta	Mechamial se	1140
*9	1	Rosetta	Wascher	3446
*8	1	Rasamento	Werlpate	1802
7	1	Corpo	Body	3298
6	1	Seeger	Retaining ring	1619
5	1	Vite	Screw	1441
*4	1	Guarnizione	Gasket	1966
*3	1	Coperchio	Cover	1837
*2	1	Camma	Cam	1821
1	6	Vite	Screw	1441

APPLICAZIONI

Perkins Serie : 1000
Motore SABRE : M130C – M185C
M215C – M225Ti
M370Ti

POMPE A GIRANTE ELASTICA PER RAFFREDDAMENTO MOTORI FLEXIBLE IMPELLER MARINE ENGINE COOLING PUMP

Tipo pompa: **FAGK FPR 092** - Codice per ordine: **0457 TM**

*Service KIT: **5337** - FOR JOHNSON

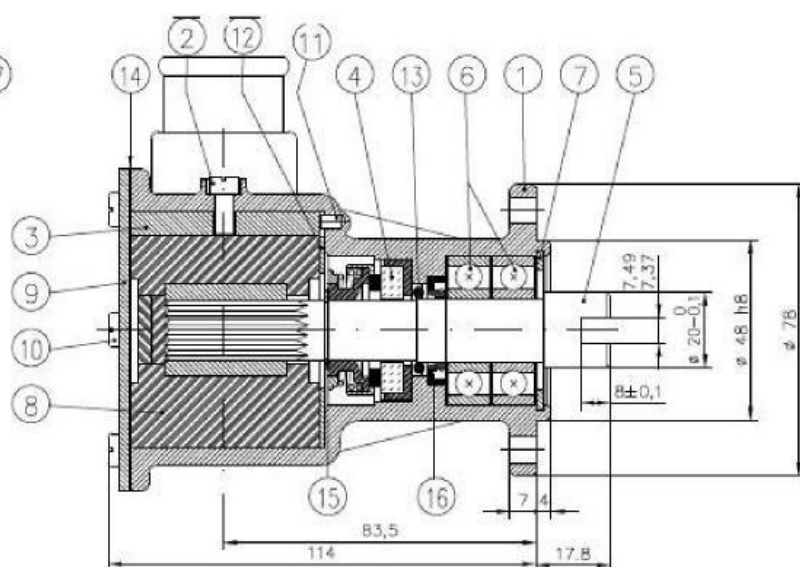
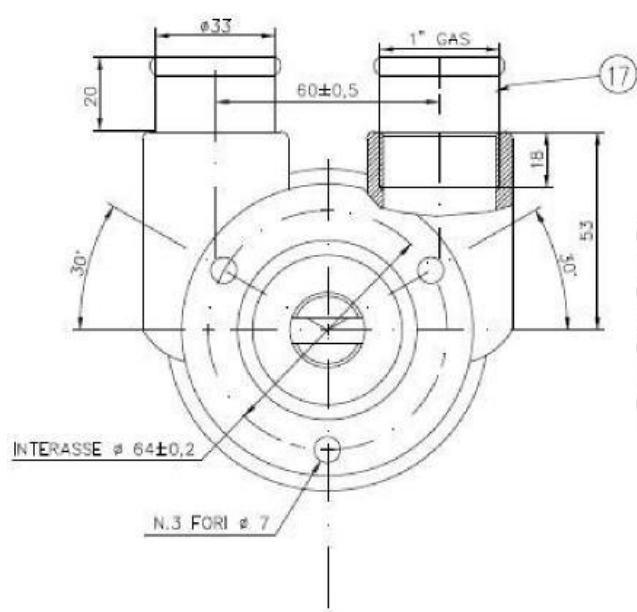
*Service KIT: **5349** - FOR JABSCO

JOHNSON: F7B-9-10-24431-01 - ANELLO - [LIP SEAL](#)

JABSCO: 23430-1701 - ANELLO - [LIP SEAL](#)



	700 rpm	900 rpm	1400 rpm	1750 rpm	2000 rpm	2500 rpm
Bar	L/min	L/min	L/min	L/min	L/min	L/min
0	40	44	74	84	94	100
0,3	38	42	71	80	91	97
0,6	35	39	65	76	87	95
1	30	34	62	71	81	86
1,5	24	27	57	66	74	78



Pe	Qu	Descrizione	Description	Codice
17	1	Tubo per	Attack tube	2041
*1	1	Anello ten.	Lip-seal	5173
15	1	Seeger	Retaining ring	1616
*1	1	Guarnizione	Gasket	1966
13	1	O_ring	O-ring	5204
*1	1	Rasamento	Shim	1802
11	1	Spina	Pin	1522
*1	6	Vite	Screw	1441
*9	1	Coperchio	Cover	1837
*8	1	Girante jabsco	Impeller	1232
*8	1	Girante-	Impeller	1394
7	1	Seeger	Retaining ring	1630
6	2	Cuscinetto	Ball bearing	2065
5	1	Albero	Shaft	1915
*4	1	Tenuta	Mechanical seal	1135
*3	1	Camma	Cam	1821
*2	1	Vite	Screw	1441
1	1	Corpo pompa	Body	2011

POMPE A GIRANTE ELASTICA PER RAFFREDDAMENTO MOTORI FLEXIBLE IMPELLER MARINE ENGINE COOLING PUMP

TYPE: **FPR 240** – CODE: **0455**

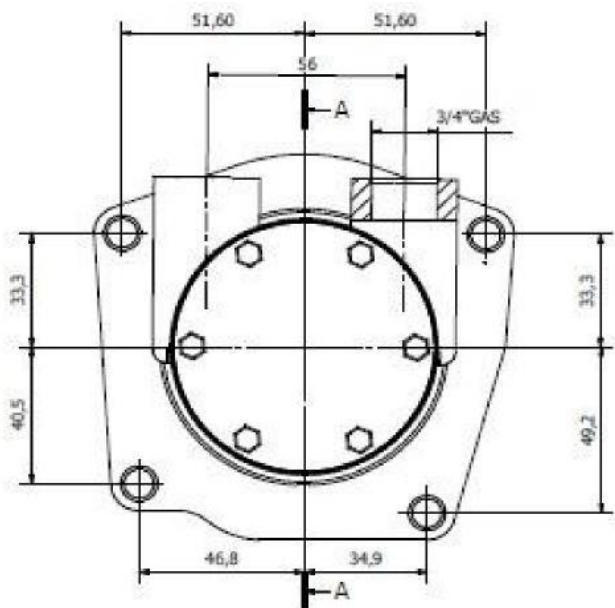
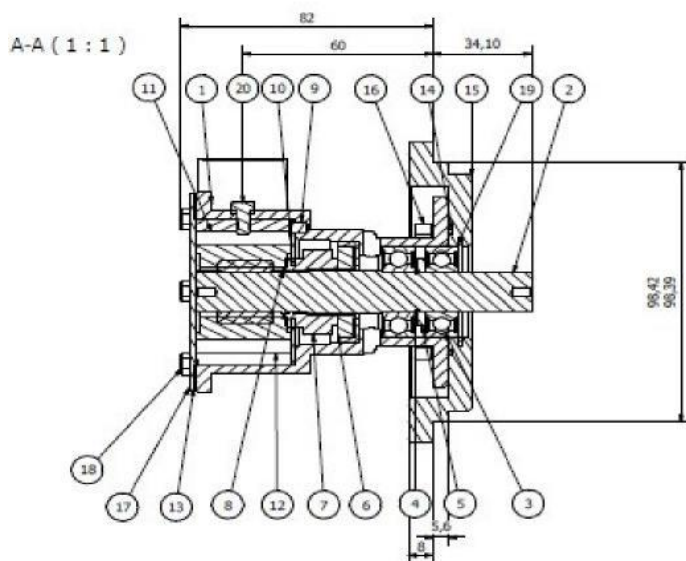
*Service KIT: **5334**

JOHNSON: F5B-9-10-24215-1

JABSCO: 10970



	700 rpm	900 rpm	1400 rpm	1750 rpm	2000 rpm	
Bar	L/min	L/min	L/min	L/min	L/min	
0,3	16	0,13	21	41	46	
0,6	15	0,13	20	39,5	45	
1,0	14	0,13	19	37	42	
1,8	8	0,18	12,2	30	33	
2,5	/	/	/	20	23,4	



Pe	Qu	Descrizione	Description	Codice
20	1	Vite	Screw	1423
19	1	Seeger	Retaning-ring	1635
*1	6	Vite	Screw	1406
*1	1	Coperchio	Cover	1848
16	4	Vite	Screw	1529
15	1	Supporto	Support	6031
14	1	Or-ring	Or-ring	5213
*1	1	Guarnizione	Gasket	1965
*1	1	Girante	Impeller	1393
11	1	Camma	Cam	1818
10	1	Rasamento	Shim	1801
9	1	Spina elastica	Pin	1522
8	1	Seeger	Retaining-ring	1616
*6	1	Tenuta	Mec.seal	1135
5	1	Distanziale	Spacer	6034
4	1	Seeger	Retaining-ring	1615
3	2	Cuscinetto	Ball	2066
2	1	Albero	Shaft	6033
1	1	Corpo pompa	Body	2012

APPLICAZIONI

PERKINS : 4.236 – 4.236T
HIGH POWER Marine : 4.236

POMPE A GIRANTE ELASTICA PER RAFFREDDAMENTO MOTORI FLEXIBLE IMPELLER MARINE ENGINE COOLING PUMP

TYPE: FPR 238 – CODE: **0451**

*Con attacco 3/4" gas

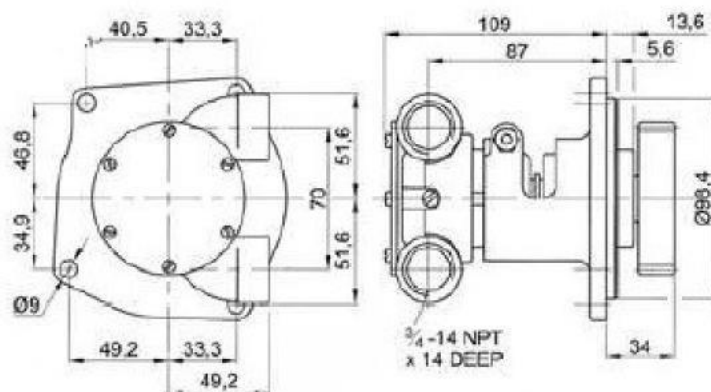
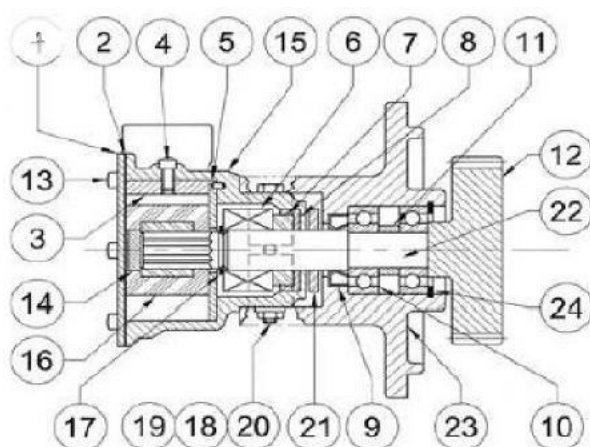
*Service KIT: 5334

JOHNSON: F5B-9-10-24215-1

JABSCO: 10970



	700 rpm	900 rpm	1400 rpm	1750 rpm	2000 rpm	
Bar	L/min	L/min	L/min	L/min	L/min	
0,3	16	0,13	21	41	46	
0,6	15	0,13	20	39,5	45	
1,0	14	0,13	19	37	42	
1,8	8	0,18	12,2	30	33	
2,5	/	/	/	20	23,4	



Pe	Qu	Descrizione	Description	Cod
24	1	Seeger	Ret ring	1635
23	1	Supporto	Support	6055
22	1	Albero	Shaft	6056
21	1	O-ring	O-ring	5204
20	1	Dado	Nut	2382
19	1	Rosetta elastica	Grower	1798
18	1	Vite	Bolt	3778
17	1	Seeger	Ret ring	1616
*1	1	Girante	Impeller	1393
15	1	Corpo pompa	Body	6054
*1	1	Tappo	Plug	1977
*1	6	Vite	Screw	1406
12	1	Ingranaggio	Gear	Client
11	1	Distanziale	Spacer	3733
10	2	Cuscinetto	Bearing	2063
*9	1	Anello di tenuta	Seal	5109
*7	1	Controfaccia	Part seal	2118
*6	1	Tenuta	Seal assy	1135
5	1	Rasamento	Werplate	1801
*4	1	Vite	Screw	1423
*3	1	Camma	Cam	1818
*2	1	Guarnizione	Gasket	1965
*1	1	Coperchio	End cover	1838

APPLICAZIONI

PERKINS

: 4.236 – 4.236T

POMPE A GIRANTE ELASTICA PER RAFFREDDAMENTO MOTORI FLEXIBLE IMPELLER MARINE ENGINE COOLING PUMP

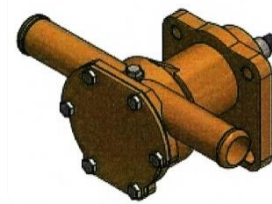
TYPE: **FPR 011** – CODE: **0524**

***Service KIT: 5333**

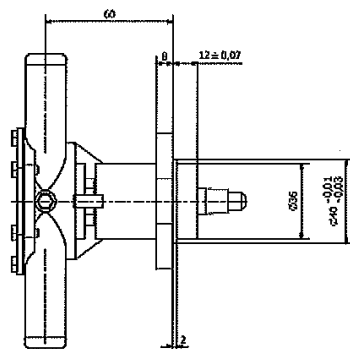
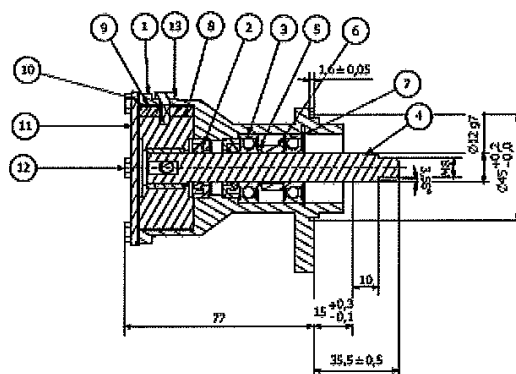
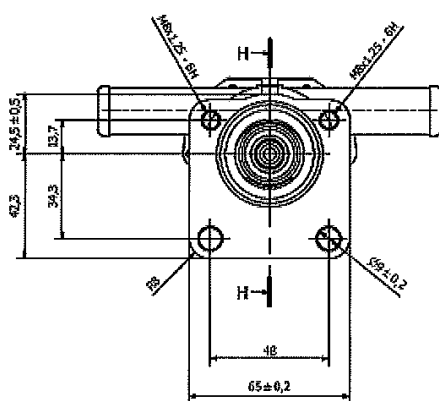
JOHNSON: F4B-903-10-24463-01 – Volvo Penta: **3580944**

JOHNSON: F4B-903-10-24751-01 – Volvo Penta: **3593654**

JOHNSON: F4B-9-10-24335-01 – **ATTACK Ø 3/8"**



	700 rpm	900 rpm	1400 rpm	1750 rpm	2000 rpm	2500 rpm
Bar	L/min	L/min	L/min	L/min	L/min	L/min
0	13	16	20	23	32	36
0,3	12	15	23	26	30	34
0,6	10	13	20	24	27	32
1	8	10	17	21	24	29



Pez	Q	Descrizione	Description	Cod
1	1	Corpo pompa	Pump body	6052
*2	1	Anello	Lip seal	5105
3	1	Cuscinetti	Bearing	2056
4	1	Albero	Shaft	6053
5	1	Seeger	Ret. Ring	1613
6	1	Distanziale	Spacer	6079
*7	1	Seeger	Ret. Ring	1629
*8	1	Camma	Cam	1814
*9	1	Girante	Impeller	1398
*10	1	Guarnizione	Kasket	1960
*11	1	Coperchio	Cover	1839
*12	6	Vite	Screw	1406
*13	1	Vite	Screw	1406

APPLICAZIONI

VOLVO PENTA	:	MD 2020B
VOLVO PENTA	:	MD 2010 / MD 2010 A / C / D
VOLVO PENTA	:	D1-20 / D1-20 A / B / F
VOLVO PENTA	:	D1-13 / D1-13A / B / F / D1-13OS / D1-13MS10L / A
ALASKA DIESEL	:	M643 / M673

POMPE A GIRANTE ELASTICA PER RAFFREDDAMENTO MOTORI
FLEXIBLE IMPELLER MARINE ENGINE COOLING PUMP

TYPE: **FPR 325** – CODE: **0472**

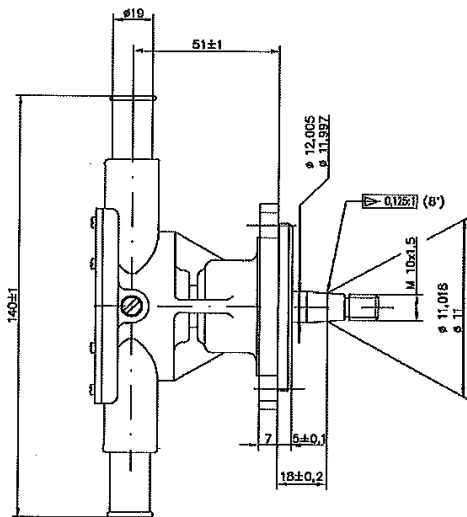
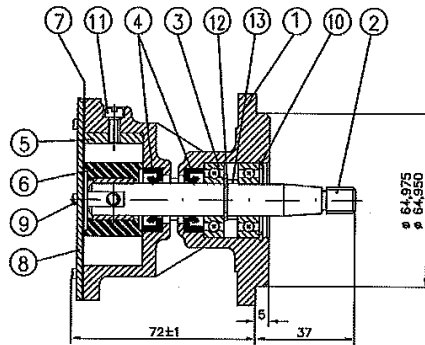
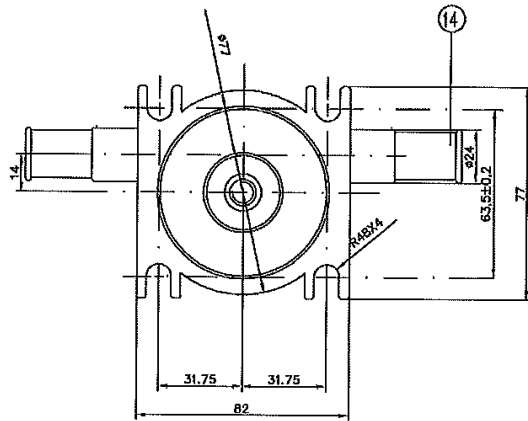
***Service KIT: 5333**

JOHNSON: F4B-903-10-24465-01 — CAM. 4 mm

JOHNSON: F4B-903-10-24752-01

VOLVO PENTA: 3580945 / 359655

	700 rpm	900 rpm	1400 rpm	1750 rpm	2000 rpm	2500 rpm
Bar	L/min	L/min	L/min	L/min	L/min	L/min
0	13	16	23	25,5	28	32
0,3	11	12	20	22,5	25	29
0,6	9	11,5	16,5	19	21	26
1	5	10,5	15	18	20	25



Pe	Qu	Descrizione	Description	Codice
14	2	Raccoerdo	Hose connector	4801
13	1	Distanziale	Clip	3288
12	1	O_ring	O-ring	1613
*1	1	Vite	Screw	1406
10	1	Seeger	Retaining ring	1629
*9	6	Vite	Screw	1406
*8	1	Coperchio	Cover	1839
*7	1	Guarnizione	Gasket	1960
*6	1	Girante	Impeller	1379
*5	1	Camma	Cam	1814
*4	2	Anello di tenuta	Lipseal	5105
3	1	Cuscinetto	Ball bearing	2056
2	1	Albero	Shaft	2030
1	1	Corpo pompa	Body	3275

APPLICAZIONI

VOLVO PENTA : D1-30 A/B

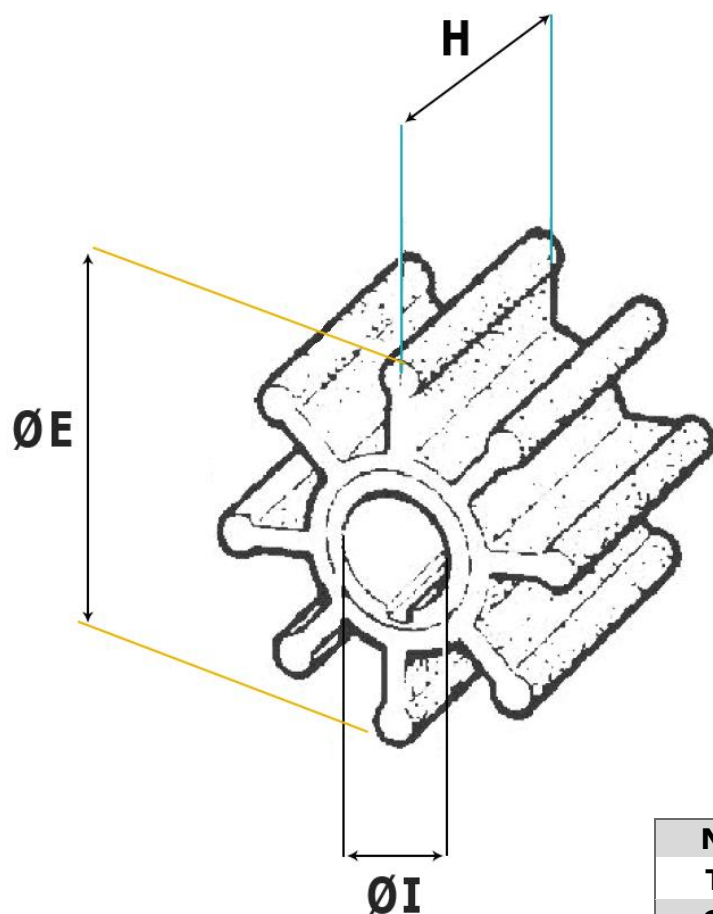
VOLVO PENTA : D2-40 A/B – D2-55 A/B/C/D/E – D2-75 A/B/C

VOLVO PENTA : 3580945 / 359655

Dopo avere presentato la vasta gamma di pompe prodotte a marchio F.A.G.K, qui di seguito vengono illustrati attraverso tabelle e specifiche tecniche dettagliate tutti i componenti di ricambio delle pompe prodotte e non solo, quali: Giranti; Alberi; Guarnizioni; Coperchi, così come identificati e visualizzati nelle tabelle sottostanti.

After presenting the vast range of F.A.G.K Italian made marine engine cooling pumps, we are hereby illustrating through detailed technical tables the whole range of spare parts regarding our own as well as the external production.

The range of products comprises: Impellers; Shafts; Gaskets; Covers, as shown in the underlying tables.



IMPORTANTE!

RICAMBI PER MOTORI ENTROBORDO
ENTRO-FUORIBORDO E FUORIBORDO

SPARE PARTS FOR BOTH INBOARD, IN-OUTBOARD
AND OUTBOARD ENGINES

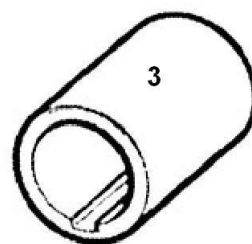
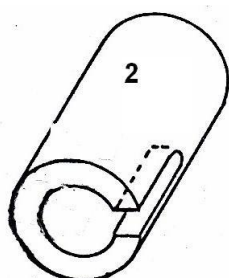
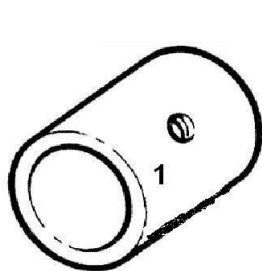
N	= NYLON
T	= TAPPO – CAP
G	= GUARNIZIONE – SEAL
X	= VITE – SCREW
C	= CHIAVETTA – KEY
CR	= CHIAVETTA + O-RING – KEY + O-RING

LEGEND

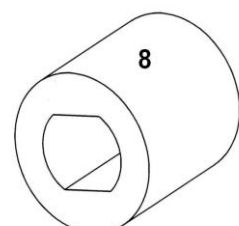
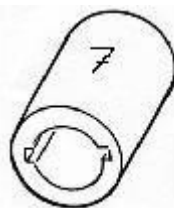
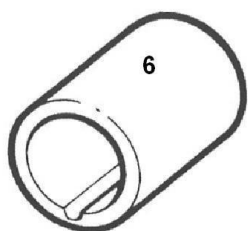
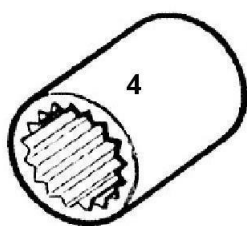


GIRANTI PER MOTORI ENTROBORDO E FUORIBORDO		INBOARD AND OUTBOARD ENGINE IMPELLERS						
CODE	COMPATIBILE CON	COMPATIBLE WITH	Ø E	Ø I	H	Ins	Pal	Mat
1480X	ESKA (Entro-Fuoribordo)		25,9	11,2	38,5	1	8	
1385X	SOLE' / MERCURISER 321.11.008		39,6	10	19,2	1	6	
1384GX	YANMAR 104211-42070 - ONAN 132-0859		39,6	9,54	18,94	1	6	N
1384GX	JABSCO 4528-0003 - Was. AL-24-37 RENAULT RC 160		39,6	9,54	18,94	1	6	N
1386GX	JABSCO 4528-0001- JOHNSON 09-806 B - SHERWOOD 9979		39,6	9,54	18,94	1	6	
1386GX	VOLVO PENTA 875807-0 / 803729 / 3586494 / ONAN 132-0859		39,6	9,54	18,94	1	6	
1386GX	YANMAR 104211-42070 / PERKINS 24880272 / JMP 7000-01		39,6	9,54	18,94	1	6	
1395GX	JABSCO 22405-0001 / JOHNSON 09-808 B / JMP 7000 / ONAN		39,6	12	19,2	1	6	
1395GX	VOLVO PENTA 3856496 / 875583-7 / WESTERBEKE 32620		39,6	12	19,2	1	6	
1380	JABSCO 653-0003 / JOHNSON 09-810 B-9		50,8	12	22	1	6	N
1379GX	JABSCO 653-0001 - JOHNSON 09-810 B / JMP 7050-01		50,8	12,15	22,1	1	6	
1392GX	JABSCO 18653-0001 / VETUS IMP 00701 / JMP 72070-01		51,8	12,15	22	1	10	
1398GX	JABSCO 673-0001 / JOHNSON 09-1026 B / JMP 7051-01		50,8	12,66	22,1	1	6	
1398GX	VOLVO PENTA 875808-8 / 3593659		50,8	12,66	22,1	1	6	
1374GX	JABSCO 673-0003 - JOHNSON 09-1026B-9		50,8	12,66	22,1	1	6	N
1391GX	JABSCO 18673-0001 / JMP7071-01		51,8	12,66	22	1	10	
1297X	YAMAHA / SOLE' -312.11.008 / Mini 11-17-23-26-34-48 HP		52	12	25	1	6	
1297X	MERCURISER 312.11.008		52	12	25	1	6	
1490	CHRYSLER 462065		56,6	14,5	15,1	2	6	
1466	FORCE 47- F 436065-2		57	12,8	14,8	2	6	
1465	CHRYSLER / FORCE 47-F433065		57	15,95	15	2	6	
1467	CHRYSLER / FORCE 47- F462065 / 25 - 35 HP		57,5	14,35	15	2	10	
1376	RENAULT COUACH 48300055 / 48300037		50,8	10	22,1	3	6	
1375	JABSCO 22799-0001 / JMP 7052 -01 / JOHNSON 09-827		50,8	12,75	22,1	3	6	
1375	YANMAR 104223-42091 / 104223-42092		50,8	12,75	22,1	3	6	
1390G	SHERWOOD 10077K / JMP 7110 -01		56,6	12,8	19,8	3	12	
1390G	ONAN 132-0375 / WESTERBEKE 11764 / 33112		56,6	12,8	19,8	3	12	
1367CG	YANMAR 145410-46090 / 124310 -42090		57	15,93	31,6	3	12	
1367CG	JABSCO 4568-0001 / JOHNSON 09-801 B		57	15,93	31,6	3	12	
1342 CG	JOHNSON 09-0801 B / VOLVO PENTA 875575		57	16	31,6	3	12	
1366	JABSCO 4568-0003 - Was.C-12-37		57	16	31,6	3	12	N
1347	JOHNSON 09-804 B-9		57	20	50,25	3	12	N
3820	CHRYSLER / FORCE 47-F84065		57,2	20,85	19,8	3	12	
1349GT	JABSCO 18838-0001 / JOHNSON 09-701 B / SHERWOOD 9959 K		62	15,9	31,7	3	12	
1349GT	ONAN 132-0117 / PERKINS NA900010 / 24880178 /		62	15,9	31,7	3	12	
1349GT	WESTERBEKE 11907 / 33104 / ONAN 132-0317		62	15,9	31,7	3	12	
1349GT	YAMAHA YSC-101-03-00- / L4-70R-12457-00 / V.P. 835512-5 /		62	15,9	31,7	3	12	
1387G	SHERWOOD 9000 K / JMP 7172		62,2	15,93	22,4	3	12	
1389GT	JABSCO 18948-0001 / JOHNSON 09-702 B-1 / SHERWOOD		65,2	15,9	41,3	3	12	
1389GT	YANMAR 124223-42091 / 128170-02070 / VOLVO P.835874-9		65,2	15,9	41,3	3	12	
1389GT	PERKINS NA 900012 / WESTERBEKE 33779 / YAMAHA 6TA-		65,2	15,9	41,3	3	12	
1389GT	CRUSADER 20300 / CUMMINS B10615 / ONAN 132-0117		65,2	15,9	41,3	3	12	
1230T	JABSCO 4598-0001 / 0001203 / SHERWOOD 10187 / 12338		65	15,9	50,2	3	8	
1230T	VOLVO PENTA 818680 / JMP 7410 / OBERDORFER 6603		62	15,9	50,2	3	8	
1231T	JABSCO 4598-0003		65	15,9	50,2	3	8	N
1236	JABSCO 18327-0001 / SHERWOOD 18200		65	16	50,8	3	10	
1238G	SHERWOOD 15000 K / CUMMINS 3916720 / JMP 7352-01		65	16	51,20	3	12	
1482	RENAULT COUACH 48300008		65	17	48,6	3	8	
3825CT	FINSRAY 3 / 4		65	15,93	50,2	3	8	
1254	JABSCO 4599-0101		65,2	15,93	50,2	3	8	
1234	RENAULT COUACH 48300006 / 48600007		66	17	32	3	8	
5360	JMP 7500-01 / IPR-D3200 / NIKKSO F25KBC		79	20	54	3	8	
1241GT	JABSCO 18958-0001 - SHERWOOD 17000 K / JOHNSON 09-		84	20,1	73,5	3	12	
1241GT	CATERPILLAR 1W5664 Motori 3208 / 3226TA / 3116TA / JMP		84,0	20,1	73,5	3	12	
1241GT	CUMMINS 3802444 / 3897337 / 3916852 / 3925236		84	20,1	73,5	3	12	
1260	FAIRWAYS - STUART TURNER		35	12	15	3	6	

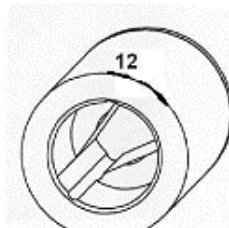
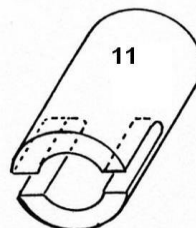
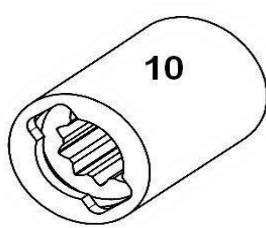
GIRANTI PER MOTORI ENTROBORDO E FUORIBORDO				INBOARD AND OUTBOARD ENGINE IMPELLERS				
CODE	COMPATIBILE CON	COMPATIBLE WITH	Ø E	Ø I	H	Ins	Pal	Mat
1340	YAMAHA 6L5-44352-00-00 / PARSUN F2.6-030000100		36	10	14,5	3	6	
1261G	EVINRUDE / JOHNSON / OMC 389576 / 436137		38,4	11,2	17,9	3	6	
1331	SUZUKI 17461-93902 / 17461-93903		39,3	13,2	22	3	6	
1264	MARINER 47-96305 M / YAMAHA 6E0-44352-00-00		40	11	12,6	3	6	
1264	PARSUN F15-06050000 / HIDEA 06.21.03.00		40	11	12,6	3	6	
1265	YAMAHA 682-44352-01-00		40	13	22	3	6	
1338	TOHATSU 334-65021-0 / 9,9-15-18-20 HP		40,8	13,97	23,4	3	8	
1266	MARINER 47-95611M / YAMAHA 662-44352-01-00		40	14	22	3	6	
1267	YAMAHA 6G1-44352-00-00		40	11,9	18	3	6	
1483	HONDA 19210-ZV4-651 / 8-9,9-15 HP		41	14,1	28,55	3	6	
1341	SUZUKI 17461-93901 / 17461-92D02		42	12,2	20	3	6	
1283	SELVA 8095010 -4 HP		43,3	12,1	12,2	3	6	
1337	TOHATSU 345-65021-0 / 25-30 -35 HP		44,25	17,2	20,25	3	6	
1335	HONDA 19210-ZW9-003 / 19210-ZW9-013		45,6	13	14,8	3	6	
1334	HONDA 19210-ZW9-A31 / 19210-ZW9-A32		45,6	16,2	14,8	3	6	
1458	YAMAHA 646-44352-01-00		47,5	11,15	13,7	3	6	
1459	EVINRUDE / JOHNSON / O M C 382221		47,6	11	14,1	3	6	
1318	TOHATSU 3C8-65021-2 / 40-50 HP		50,4	17,2	20,2	3	6	
1460	EVINRUDE / JOHNSON / O M C 389983		51,2	15,94	19,05	3	6	
1270	YAMAHA 6L2- 44352-00-00		51,2	13,97	19,05	3	6	
1271G	YAMAHA / SELVA 6H4-44352-02-00 / PARSUN F25-040040000		51,2	16,1	19,05	3	6	
1462	EVINRUDE / JOHNSON / OMC 390286		51,2	17,5	19,05	3	6	
1463	YAMAHA 697-44352-00-00 / YAMAHA / SELVA 6H3-44352-00-00		51,8	18,05	19	3	6	
1320	YAMAHA / SELVA 68T-44352-00-00 / HIDEA 06.05.00.00 /		53	11,6	14	3	6	
1464	SELVA / YAMAHA 63V-44352-01-00 / PARSUN F4-03060000		53	12,85	14	3	6	
1332	HONDA 19210-ZV5-003 (Chiavetta H=4) - HP35 / 40 / 45 / 50		55,75	17,2	20,2	3	6	
1484	HONDA 19210-ZY7-003 (Chiavetta H=5) - HP 20 / 25 / 30		55,75	17,2	20,2	3	6	
3820	CHRYSLER / FORCE 47-F /84065		56,6	20,8	19,8	3	12	
1456	CHRYSLER / FORCE 47- F523065-1 / 75-140 HP		57,5	21	29,6	3	6	
5363	CHRYSLER / FORCE 47-F40065-2 / 35-45 HP		57,5	15,95	14,65	3	10	
1469	YAMAHA 688-44352-03-00		58	20,1	30	3	6	
1321	YAMAHA / SELVA 67F-44352-00 / 80-100 HP / SELVA 100 HP		58,2	20	34,7	3	6	
3818	SUZUKI 17461-96400 / 17461-96402		67	17,2	16,16	3	6	
1282	SUZUKI 17461-94700		67	17,1	19	3	6	
1292	SUZUKI 17461-95300 / 17461-95301 / 17461-95501		67,5	20	19	3	6	
1284G	SUZUKI 17461-96301 / 17461-96312		67	17,1	16,5	3	6	
1326	TOHATSU 3C7-65021-1 / 3B7-65021-2 / 60-70-80-115-120-140		65,75	20,3	35,2	3	6	
1285	EVINRUDE / JOHNSON / 434424 / 277181		69	10,93	12,72	3	6	
1286	EVINRUDE / JOHNSON / OMC 375638 / 775518		69	12,75	12,72	3	6	
1471	EVINRUDE / JOHNSON / OMC 377178 / 775519		69	14	12,72	3	6	
1472	EVINRUDE / JOHNSON / O M C /378891 / 775521		69	16	12,72	3	6	
1289	MERCURY 47-84797-MARINER 25 HP / YAMAHA 689-44353-02		69,5	16,15	12,72	3	6	
1287	JOHNSON EVINRUDE 377230 / 777213 / YAMAHA 6F5-44352-00-		69,8	16,04	22,1	3	6	
3819	SUZUKI 17461-93001 / 17461-93004		70,5	15,25	12,1	3	6	
2998	YANMAR 196630-08152 / D27 / AX / AY / D36 AX / AY Originale		72,5	16	18,2	3	6	
1327	SUZUKI 17461-87E00 / 17461-87E10 / 17461-87E11		78,3	22,2	26	3	6	
1328N	SUZUKI 17461-94510 / 17461-94511 / 17461-90J01 / 17461-		86	24,4	31,7	3	6	
1329	SUZUKI-17461-93J00		87	24,3	39	3	5	
1333	HONDA -19210-ZW1-B02 / 19210-ZW1-B04		87,8	23,35	31	3	6	
1481	YAMAHA / SELVA 6E5-44352-01-00 / 6E5-44352-00-00		89	22,4	31	3	6	
1476	O M C 385072 / 115-125 HP		89	19,13	31,9	3	6	
1479N	EVINRUDE / JOHNSON 389642 / 1.6 L-2.3 L seadrives-85-88-		89	22,3	31,9	3	6	
2993N	YAMAHA 6AW-44352-00 - F300 /F350		89	24,6	36	3	6	
1319	HONDA 19210-ZY3-003		89,75	26	31,3	3	6	
1478	EVINRUDE / JOHNSON 382547		91,5	19,25	25,4	3	6	
1298	JOHNSON / EVINRUDE OMC 379475 / 397475 / 777130		109,5	22,3	24,8	3	6	



GIRANTI PER MOTORI ENTROBORDO E FUORIBORDO				INBOARD AND OUTBOARD ENGINE IMPELLERS				
CODE	COMPATIBILE CON	COMPATIBLE WITH	Ø E	Ø I	H	Ins	Pal	Mat
1393 GT	JABSCO 1210-0001 / 3085-0001 / JOHNSON 09-1027 B / JMP		57	16	31,6	4	12	
1393 GT	VOLVO PENTA 875811-2 / 877400 / 3862281-2 / VETUS		57	16	31,6	4	12	
1393 GT	SOLE 351.11.008 / YANMAR 129470-42530 / 32 / 129670-42531		57	16	31,6	4	12	
1393GT	ONAN 132-0162 / KASHIYAMA KP-30		57	16	31,6	4	12	
1368GT	JABSCO 1210-0003 / 121037 - JOHNSON 1027B-9		57	16	31,6	4	12	N
2991GT	VOLVO PENTA 21216660 / 3862567 / 3862465		57	16	32,05	4	12	
1364	JABSCO 13554-0001- JOHNSON 09-812 B / YANMAR 119773-		57	16	48,2	4	12	
1489G	VOLVO PENTA 3842786 /21213664 /YANMAR 119773-42600-01		57	16	48,3	4	12	
1365GT	JABSCO 22120-0001B		57	16	50,2	4	12	
1372	JABSCO 13554 - 6001		57,15	16	48,25	4	12	
1345 G	JABSCO 18777-0001 / 22120-0001 / VOLVO PENTA 834794 /		57,18	16	50,25	4	10	
1348	JABSCO 11979-0001 / JMP 7200-01		65	16	36,65	4	8	
3814	HYUNDAI 00400-1U090		65	16	41,5	4	12	
1240GT	JABSCO 17018-0001 / MERCURISER 47-816814T / JMP 7446-01		65,2	16	75,65	4	8	
1240GT	VOLVO PENTA 3583602 / 3588476 / 3593573 / 3819486		65,2	16	75,65	4	8	
1394GT	JABSCO920-0001-JOHNSON 09-1028B / JMP 7400 / SOLE'		65	16	50,2	4	8	
1394GT	MERCURISER 47-801332602 / YANMAR 127610-42200 / JMP		65	16	50,2	4	8	
1394GT	VOLVO PENTA 875593-6 / 877061 / 3841697 / VETUS IMP 00301		65	16	50,2	4	8	
1394GT	DETROIT DIESEL 5193602 / 5196629 / CUMMINS 19762 /		65	16	50,2	4	8	
1369GT	JABSCO 920-0003 / 92037 - JOHNSON 09-1028B-9		65	16	50,2	4	8	N
1232T	JABSCO 17937-0001 / JMP 7426 -01 / SHERWOOD 18200 (12		65	16	50,1	4	10	
1232T	VOLVO PENTA 3588475 / FPT-IVECO 8112772		65	16	50,1	4	10	
1232T	PERKINS 0460024 / 24880031 / YANMAR 12610-42200 /		65	16	50,1	4	10	
1232T	MERCURISER MB 616 / SF 15-18 / 60354-13		65	16	50,1	4	10	
1233T	JABSCO 17937-0003 / JMP 7436		65	16	50,1	4	10	N
1296	JABSCO 31130-0061 / JMP 7420 -01/ YANMAR 119593-42200		65	16	68,2	4	10	
1296	MERCURISER 47-831311350		65	16	68,2	4	10	
1229G	JOHNSON 821-B / YANMAR 119574-42550 / VOLVO PENTA		65,8	25	80	4	12	
3815	HYUNDAI 00102-7DO90 - JMP 7501		79	20	54	4	9	
3816	HYUNDAI 00102-5S090 / JMP 7556		80	20	75	4	9	
1396GT	JABSCO 836-0001 - JOHNSON 09-1029 B / JMP 8000 -01		95	25	63,1	4	9	
1396GT	VOLVO PENTA 807904 / 875660-3 / 875736-1 / 21430184 /		95	25	63,1	4	9	
1396GT	DETROIT DIESEL 5193553 / CUMMINS 3010773 / 556540 /		95	25	63,1	4	9	
1242GT	JABSCO 836-0003 - JOHNSON 09-1029 B-9		95	25	63,1	4	9	N
1245T	JABSCO 17935-0001 -JOHNSON 09-819 B / JMP 8100 -01 /		95	25	63,1	4	12	
1245T	DETROIT DIESEL 8924838		95	25	63,1	4	12	
1246T	JABSCO 17935-0003 - JOHNSON 09-819 B-9		95	25	63,1	4	12	N
1243T	JABSCO 6760-0001 / JOHNSON 09-802 B / JMP 8200 -01		95	25	88,5	4	9	
1243T	DETROIT DIESEL 5196168 / 5198550 / KASHIYAMA SP-280		95	25	88,5	4	9	
1248GT	JABSCO 17936-0001 / 21676-0001 / JOHNSON 09-814 B / JMP		95	25	88,5	4	12	
1248GT	VOLVO PENTA 875697 / 875814 / / 842857 / DETROIT DIESEL		95	25	88,5	4	12	
1249GT	JABSCO 17936-0003 / 21676-0003 / 09-0814B-9		95	25	88,5	4	12	N
2996G	JABSCO 17938-0001 / JMP 8326 / VOLVO PENTA 3830459		95	25	95	4	12	
1363	SHERWOOD 18000K / JOHNSON 09-705BT-1 / CATERPILLAR		95	25	102	4	12	
1253	JOHNSON 09-820 B		96,5	25	130	4	12	
2997	JABSCO 17240-0001 / 18789-0001 / JMP 9001-01		118	25	88,5	4	9	
2990	JABSCO 50668 / DEV 4307		119	38,82	133	4	9	
1486	JABSCO 1411-0001 / 21411-0001 / YANMAR 128176-42071		31,3	8,05	11,9	5	6	
1487	JABSCO 14787-0003		31,3	8,05	11,9	5	6	N
1399	JABSCO 14609-0003 1414-0003		31,75	8,05	13	5	6	N
1388	JABSCO / 1414-0001 / 14609-0001 / 14787-0001 / JMP 6000-01		31,75	8,05	12	5	6	
1388	JABSCO 14609-0001 - JANMAR 128170-42070		31,75	8,05	12	5	6	
1397	JOHNSON 09-1077B-9		35,4	7,4	12,8	5	6	N
2992	SHERWOOD 8000K / JMP 7013 / KOLER 359978 / ONAN 132-		40	12	19	5	6	
1488	JOHNSON 09-1502 B		44,6	8,05	13	5	6	
1382	JOHNSON 09-1052 S-9 / 09-843S-9		44,6	8,05	13	5	6	N



GIRANTI PER MOTORI ENTROBORDO E FUORIBORDO			INBOARD AND OUTBOARD ENGINE IMPELLERS					
CODE	COMPATIBILE CON	COMPATIBLE WITH	Ø E	Ø I	H	Ins	Pal	Mat
1256	MERCURY 47-22748 / 6-8-9 HP		32	<	14,4	6	6	
1257	MERCURY 47-65957 / 47-89981 / 4-4,5 5 6-7,5-9,8 HP		32	11,6	14,4	6	6	
1258	MERCURY 47-68988 / 47-89980 / 3,5-3,6-4-5- HP		32	11	14,35	6	6	
1259	WHITEHAD 6-12 HP		32	12	13,3	6	6	
1325	MARINER / MERCURY 47-16154-B / 47-16154-3		33,6	10,25	14,2	6	6	
1325	TOHATSU 369-65021-1 / 2-2,5-3,5-4-5-6		33,6	10,25	14,2	6	6	
1262	JOHNSON - EVINRUDE 387361 / 1,5-2-4-6 HP		38,4	10,94	17,80	6	6	
1263	EVINRUDE / JOHNSON / OMC 386084		38,4	12,75	17,80	6	6	
5362	MERCURY 47-20813		38,5	16	21,8	6	6	
1455	EVINRUDE / JOHNSON / OMC 433915 / 433935 / 2,5 - 3.4		39	11,12	17,70	6	3	
1339	TOHATSU 3B2-65021-1 / 4-5-6 HP		40	12	18	6	6	
1269	SELVA 8095020 / 8-10-15 HP (2Tempi)		48	13,2	15	6	6	
3817	SELVA 8095040		48,5	12,2	15	6	6	
1461G	EVINRUDE / JOHNSON 388702		51,2	15,95	19,5	6	6	
1273G	OMC 38870 - MERCURY 47-65958 -47-89982		51,2	15,95	19,05	6	6	
1274	WHITEHAD - 20 / 25 HP		51	17	19,1	6	6	
1275	MERCURY 47-65959 / 47-899983 - MARINER 47-20268		51,8	19,13	19	6	6	
1275	SUZUKI 17461-95201		51,8	19,13	19	6	6	
1277	SELVA 8095050 - 20 -35 HP		53	15,2	20,5	6	6	
1278	SELVA 80950-60 -40 / 100 HP		58,6	18,2	22,5	6	8	
1279	MERCURY 47-42038		58,8	13	11,7	6	6	
1280G	MARINER / 47-65960 / 89984		60	22,3	33,8	6	6	
1280G	MERCURY 47-65960 / 47-89984 / 47-F694065 / 473631T		60	22,3	33,8	6	6	
1280G	MERCURUISER 47-89984T4 / CHRYSLER/FORCE-47-F69406 / 47-		60	22,3	33,8	6	6	
1473	EVINRUDE / JOHNSON 389589 /		69,2	16,04	22,25	6	6	
1290	MERCURY 47-85089-3 / 47-85089-10		73	16	12,6	6	6	
1475	MARINER / MERCURY 47-19453T		78,2	19,25	25,15	6	6	
1291N	MERCURY 47-43026-T2 / 47-43026-2		89	22,4	32,5	6	6	
1291N	MRCRUISER 47-43026-T2 / 47-430262Q02		89	22,4	32,5	6	6	
1291N	HONDA 19210-ZW1-003 / 19210-ZW1-303		89	22,4	32,5	6	6	
1299	VOLVO PENTA 3555413-8		39,6	10,00	14,3	7	12	
1330	SUZUKI 17461-98501 / 98502 / 17461-98503		41	10	14	7	6	
1468	MERCURY 47-95289-2 / 47-95228912 / TOHATSU 309-65021-1		41	12	14	7	6	
1468	EVINRUDE / JOHNSON / OMC 114812		41	12	14	7	6	
1346	JABSCO 50461-1001		57,18	13,42	50,25	8	10	
1343	MERCURUISER 47-862232A2 / Ø 15,25-Piani 11,4 - Motore 5.7		66,5	11,4	50,6	8	8	
1247	JOHNSON J09-838 S / JMP 8001-01 / Albero Ø 25,4 - Piani 20,2		94,0	20,2	63,0	8	11	
1250	JABSCO 17370-0001 / JMP 8300 / CATERPILLAR FB-3N4859		95	20,2	88,5	8	12	
1250	DETROIT D. 8927570 / CUMMINS 3008503 - Albero Ø 25,4-Piani		95	20,2	88,5	8	12	
3823G	JABSCO 18786-0001 / JMP 9000 -01 - Albero Ø 25,4 - Piani 20,2		117	20,2	88,5	8	9	
1272C	JOHNSON / EVINRUDE / 395289 / MERCURY 47-888689		51,2	15,94	19,05	9	6	
1474C	JOHNSON-EVINRUDE -396809 / 777214		70	16,04	22,3	9	6	
1293CR	EVINRUDE JOHNSON 395864 / 397131 / 435748 / 435821 /		89	22,31	32,03	9	6	
1477C	OMC / EVINRUDE / JOHNSON 437059 / 438592		91,3	19,15	25,4	9	3	
1294NC	JOHNSON OMC 737 / 432941		91,3	19,15	25,4	9	3	
1295N	JOHNSON / EVINRUDE 396725 / 432954 / 437080		91,5	19,15	25,4	9	6	
3824HD.K	VOLVO PENTA 3583602 / 3588476 / 3593573 / 3819486		65,2	16	75,65	10	8	
2152G	SHERWOOD 27000K / CUMMINS 3974456		84,0	20,0	73,00	10	12	
2153G	SHERWOOD 18000K / JOHNSON 09-704BT-1 / CUMMINS		94,5	20,7	101,5	10	12	
2153G	CATERPILLAR 1095324 / 1095327 / 1230492 / 1239785 / JMP		94,5	20,7	101,5	10	12	
2154G	SHERWOOD 26000K - 45°-10		94,5	20	79,8	10	12	
2994GX	SHERWOOD 29000K - 45°-10		94,5	20	101,5	10	12	
2151G	SHERWOOD 22000K - 30°-14		114	25	109,5	10	10	
2995GX	SHERWOOD 30000K - 45°-10		114	20	109,5	10	10	
1454	SHRYSLER / FORCE 47-525065		36,5	11	18,1	11	6	
1470	O M C 983895 / 2,3 /3.0 L / 4.3L / 5.7L / 7.5L		58,5	12,76	40,41	12	10	



KIT RICAMBI POMPE		PUMP REPLACEMENT KITS									
CODE	PUMP	SERVICE KIT	IMPELLER	GASKET	COVER	S. COVER	CAM	S. CAM	PLATE	LIP SEAL	MEC. SEAL
CODICE	POMPA	KIT	GIRANTE	GUARNIZIONE	COPERCHIO	COPERCHIO VITE	CAMMA	C. VITE	PIATTO	ANELLO TEN.	TENUTA MECC.
0439	PFR 242		1240	1966	1837	1441	1825	1441	1802	5118	1142
0600	FPR 300		1253	5225	1848	1529	2132	1519	1803	5157	5973
0473	FPR 341	/	1379	1960	1839	1406	1814	1406	/	5105	/
0584	FPR 079	5321	1394	1966	1837	1441	1821	2397	1802	5111	3504
0514	FPM335L	5322	1393	5187	1837	1441	1818	2371	1801	5165	/
0504	FPM 335T	5323	1393	5187	1837	1441	1818	2371	1801	/	1135
0515	FPM 336L	5324	1394	5192	1847	1441	1821	2371	1802	5165	/
0516	FPM 336T	5325	1394	5192	1847	1441	1821	2371	1802	/	1141
0470	FPM	5325	1394	1966	1837	1441	1821	2371	1802	/	1141
0471	FPM	5325	1394	1966	1837	1441	1821	2371	1802	/	1141
0528	FPR 002	5326	1395	1954	1840	1406	1811	1406	1800	5105	/
0540	FPR 009	5326	1395	1954	1840	1406	1811	1406	1800	5105	/
0442	FPR 010	5326	1395	1954	1840	1406	1810	1406	1800	5105	
0531	FPR 014	5326	1395	1954	1840	1406	1811	1406	1800	5105	/
0535	FPR 015	5326	1395	1954	1840	1406	1811	1406	1800	5105	/
0576	FPR 016	5326	1395	1954	1840	1406	1811	1406	1800	5105	/
0477	FPR 017	5326	1395	1954	1840	1406	1811	1406	1800	5105	/
0578	FPR 018	5326	1395	1954	1840	1406	1811	1406	1800	5105	
0578	FPR 048	5326	1395	1954	1840	1406	1811	1406	1800	5105	/
0453	FPR 214	5326	1395	1954	1840	1406	1811	1406	1800	5105	/
0452	FPR 241	5326	1395	1954	1840	1406	1811	1406	1800	5105	/
0569	FPR 008	5327	1395	5200	1842	1406	1811	1406	/	5105	/
0533	FPR 012	5328	1386	1956	1832	1406	1811	1391	1800	5102	/
0523	FPR 023	5331	1379	1960	1839	1406	1814	1406	/	5105	/
0557	FPR 025	5331	1379	5218	1838	1406	1813	1406	/	5104	/
0570	FPR 026	5331	1379	1960	1839	1406	1814	1406	/	5105	/
0553	FPR 028	5331	1379	1960	1839	1406	1814	1406	/	5005	/
0581	FPR 029	5331	1379	1960	1839	1406	1814	1406	/	5105	/
0537	FPR 031	5331	1379	1960	1839	1406	1814	1406	/	5105	/
0538	FPR 033	5331	1379	1960	1839	1406	1814	1406	/	5105	/
0547	FPR 035	5331	1398	1960	1839	1406	1814	1406	/	5105	/
0539	FPR 037	5331	1379	1960	1839	1406	1814	1406	/	5105	/
0536	FPR 038	5331	1398	1960	1839	1406	1814	1406	/	5105	/
0519	FPR 099	5331	1379	1960	1839	1406	1815	1406	/	5105	/
0567	FPR 234	5331	1379	1960	1839	1406	1814	1406	/	5105	/
0568	FPR 236	5331	1379	1960	1839	1406	1814	1406	/	5105	/
0484	FPR 323	5331	1379	1960	1839	1406	1815	1406	/	5105	/
0479	FPR 329	5331	1379	1960	1839	1406	1814	1406	/	5105	/



*KIT 5324



*KIT 5325



*KIT 5326



*KIT 5327

KIT RICAMBI POMPE PUMP REPLACEMENT KITS

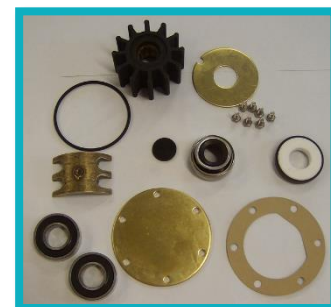
CODE	PUMP	SERVICE	IMPELLER	GASKET	COVER	S. COVER	CAM	S. CAM	PLATE	LIP SEAL	MEC. SEAL
CODICE	POMPA	KIT	GIRANTE	GUARNIZIONE	COPERCHIO	COPERCHIO VITE	CAMMA	C. VITE	PIATTO	ANELLO TEN.	TENUTA MECC.
0554	FPR 019	5332	1392	1960	1839	1406	1814	1406	/	5105	
0554	FPR 019	5332	1392	1960	1839	1406	1814	1406	/	5105	/
0534	FPR 034	5332	1392	1960	1839	1406	1814	1406	/	5105	/
0518	FPR 037L	5332	1392	1960	1839	1406	1814	1406	/	5105	/
0589	FPR 039L	5332	1392	1960	1839	1406	1814	1406	/	5105	/
0565	FPR 235	5332	1392	1960	1839	1406	1814	1406	/	5105	/
0524	FPR 011	5333	1398	1960	1839	1406	1814	1406	/	5105	/
0541	FPR 039	5333	1398	1960	1839	1406	1814	1406	/	5105	/
0485	FPR 324	5333	1398	1960	1839	1406	1814	1406	/	5105	/
0472		5333	1398	1960	1839	1406	1814	1406	/	5105	
0530	FPR 040	5334	1393	1965	1838	1406	1818	1406	1801	/	1135
0529	FPR 041	5334	1393	1965	1838	1406	1818	1406	1801	/	1135
0448	FPR 043T	5334	1393	1965	1838	1406	1818	1441	1801	/	1135
0559	FPR 044	5334	1393	1965	1838	1406	1818	1406	1801	/	1135
0481	FPR 069	5334	1393	1965	1838	1406	1818	1441	1801	/	1135
0580	FPR 078	5334	1394	1966	1837	1441	1821	2377	1802	5173	1135
0455	FPR 240	5334	1393	1965	1838	1406	1818	1423	1801	/	1135
0558	FPR 042	5335	1393	1965	1838	1406	1818	1406	1801	5109	/
0556	FPR 043	5335	1393	1965	1838	1406	1818	1441	1801	5109	/
0548	FPR 047	5335	1393	1965	1838	1406	1818	1406	1801	5109	/
0549	FPR 048	5335	1393	1965	1838	1406	1818	1406	1801	5109	/
0560	FPR 049	5335	1393	1965	1838	1406	1818	1441	1801	5109	/
0550	FPR 053	5335	1393	1965	1838	1406	1818	1441	1801	5109	/
0551	FPR 057	5335	1393	1965	1838	1406	1818	1441	1801	5109	/
0573	FPR 070	5335	1393	1965	1838	1406	1818	1441	1801	5109	/
0482	FPR 071	5335	1393	1965	1838	1406	1818	1441	1801	5109	/
0564	FPR 073	5335	1393	1965	1838	1406	1818	1441	1801	5109	/
0552	FPR 076	5335	1393	1965	1838	1406	1818	1441	1801	5109	/
0483	FPR 219	5335	1393	1965	1838	1441	1818	1441	1801	5109	/
0517	FPR 220	5335	1393	1965	1838	1441	1818	1441	1801	5109	/
0454	FPR 249	5335	1393	1965	1838	1441	1818	1441	1801	5109	/
0456	FPR 347	5335	1393	1965	1838	1406	1818	1406	1801	5109	/



*KIT 5331



*KIT 5333



*KIT 5334



*KIT 5332



*KIT 5335

KIT RICAMBI POMPE **PUMP REPLACEMENT KITS**

CODE	PUMP	SERVICE	IMPELLER	GASKET	COVER	S. COVER	CAM	S. CAM	PLATE	LIP SEAL	MEC. SEAL
CODICE	POMPA	KIT	GIRANTE	GUARNIZIONE	COPERCHIO	COPERCHIO VITE	CAMMA	C. VITE	PIATTO	ANELLO TEN.	TENUTA MECC.
0592	FPR 089	5336	1243	1968	1841	2376	1817	2376	1803	5124	1131
0542	FPR 045	5337	1394	1966	1837	1441	1821	1441	1802	5173	1135
0543	FPR 046	5337	1394	1966	1837	1441	1821	1441	1802	5173	1135
0486	FPR 066	5337	1394	1966	1837	1441	1821	1441	1802	/	1135
0546	FPR 072	5337	1394	1966	1837	1441	1821	1441	1802	/	1135
0574	FPR 074	5337	1394	1966	1837	1441	1821	1441	1802	/	1135
0585	FPR 090	5337	1394	1966	1837	1441	1821	1441	1802	/	1135
0587	FPR 091	5337	1394	1966	1837	1441	1821	1441	1802	/	1135
0440	FPA 280	5337	1394	1965	1837	1441	1821	1441	1802	5109	1135
0532	FPR 050F	5338	1394	1966	1837	1441	1821	1441	1802	5114	1140
0544	FPR 051	5339	1232	1966	1837	1441	1821	1441	1802	5109	1140
0596	FPR 052	5339	1232	1966	1837	1441	1821	1441	1802	5109	1140
0449	FPR 054	5339	1232	1966	1837	1441	1821	1441	1802	5109	1142
0561	FPR 058	5339	11232	1966	1837	1441	1821	1441	1802	5109	1140
0562	FPR 064	5339	1232	1966	1837	1441	1821	1441	1802	5109	1140
0545	FPR 065	5339	1232	1966	1837	1441	1821	1441	1802	5109	1140
0583	FPR 081	5339	1232	1966	1837	1441	1821	1441	1802	5109	1142
0579	FPR 056	5340	1393	1965	1837	1406	1808	1406	1801	5111	3504
0451	FPR 238	5340	1393	1965	1838	1406	1818	1406	1801	5109	1135
0586	FPR 080	5341	1240	5207	1836	1529	1824	2377	1802	5118	1142
0590	FPR 087	5342	1248	1968	1841	1496	1826	1885	1803	5124	1134
0591	FPR 088	5343	1396	1968	1841		1817	2376	1803	5124	1131
0604	FPR 313	5344	1379	5218	1838	1406	/	/	/	5105	/
0457	FPR 092	5349	1394	1966	1837	1441	1821	1441	1802	5173	1135
0476	FPR 291	5350	1394	5192	1847	1441	1821	1441	1802	/	1135
0499	FPM 001	5351	1395	5200	1842	1406	1811	1431	1800	5105	/
0498	FPM 004	5351	1395	5200	1842	1406	1811	1431	1800	5105	/
0500	FPM 005	5351	1395	5200	1842	1406	1811	1431	1800	5105	/


***KIT 5337**

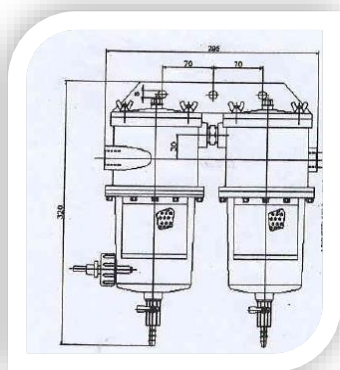
***KIT 5338**

***KIT 5339**

***KIT 5344**

***KIT 5351**

PREFILTRO DECANTATORE PER BENZINA E GASOLIO CON COPPETTA TRASPARENTE DIESEL AND GASOLINE DECANTER PREFILTER WITH TRANSPARENT BOWL



Tipo FPG 23VD/WS -21VD-WS - Prefiltro per gasolio a doppia stazione filtrante

La prima unità con elemento filtrante in acciaio inox separa le particelle più pesanti e l'acqua dal carburante, inoltre tramite il "water signal" segnala la presenza dell'acqua.

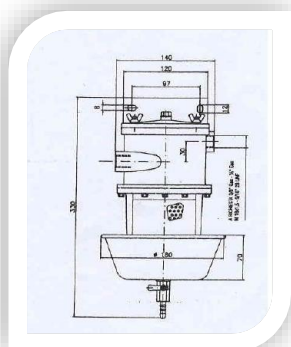
FPG 23VD/WS -21VD-WS – Diesel pre-filter with double filtering station.

The first inox filter unit divides the water and heavier particles from the fuel. Also, the "water signal" is able to signalize the presence of water.

Tipo	Codice	Portata L/h		Attacco	Cartuccia
		OP	MAX		
FPG23VD/WS	2169	800	1900	1/2"	1662/1663
FPG21VD/WS	3827	400	650	3/8"	1662/1663
FPG21VD	3828	400	650	3/8"	1662/1663
FPG23VD	3829	800	1900	1/2"	1662/1663

Tipo FPG21V/23V - Prefiltro centrifugo separatore acqua/carburante (gasolio e benzina) con coppetta trasparente; Elemento filtrante in acciaio inox o carta. Il flusso centrifugo separa le particelle più piccole, con buona azione filtrante. Universale per tutti i motori. Costruito con materiali a norme R.I.Na.

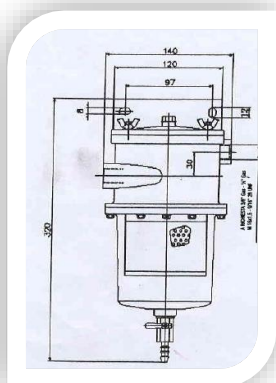
FPG21V/23V – Centrifugal water/fuel divider pre-filter (both diesel and gasoline) with transparent bowl. Inox or paper filtering element. The centrifugal flux provides a good filtering division of the smallest particles. Universally compatible with all engine types. Built with R.I.Na certified materials.



Tipo	Codice	Portata L/h		Attacco	Cartuccia
		OP	MAX		
FPG21VIR	2178	600	1200	3/8"	1662 inox
FPG21VCR	2183	400	600	3/8"	1663 carta
FPG21VIR/WS	3831	600	1200	3/8"	1662 inox
FPG21VCR/WS	3832	400	600	3/8"	1663 carta
FPG23VIR	2188	900	1900	1/2"	1662 inox
FPG23 VCR	2186	400	650	1/2"	1663 carta
FPG23VIR/WS	2189	900	2000	1/2"	1662 inox
FPG23VCR/WS	3833	400	650	1/2"	1663 carta

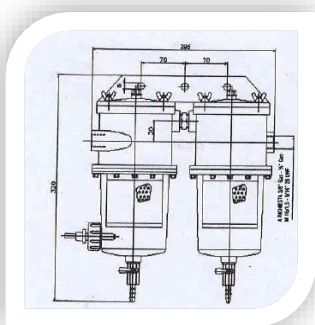
***IL PREFILTRO FPG21V E FPG23V SONO CONFORMI ALLA NORMATIVA ISO 10088 SIA PER GASOLIO E SIA PER BENZINA.**

***IL PREFILTRO FPG21V E FPG23V SONO CONFORMI ALLA NORMATIVA ISO 10088 SIA PER GASOLIO E SIA PER BENZINA.**



Tipo	Codice	Portata L/h		Attacco	Cartuccia
		OP	MAX		
FPG21VI	2179	600	1200	3/8"	1662 inox
FPG21VC	2158	400	600	3/8"	1663 carta
FPG21VI/WS	2184	600	1200	3/8"	1662 inox
FPG21VC/WS	2168	400	600	3/8"	1663 carta
FPG23VI	2185	900	1900	1/2"	1662 inox
FPG23 VC	3830	400	600	1/2"	1663 carta
FPG23VI/WS	2187	900	1900	1/2"	1662 inox
FPG23VC/WS	2198	400	650	1/2"	1663 carta

FILTRO DECANTATORE PER BENZINA E GASOLIO CON COPPETTA IN ALLUMINIO DIESEL AND GASOLINE DECANter PREFILTER WITH ALUMINIUM BOWL

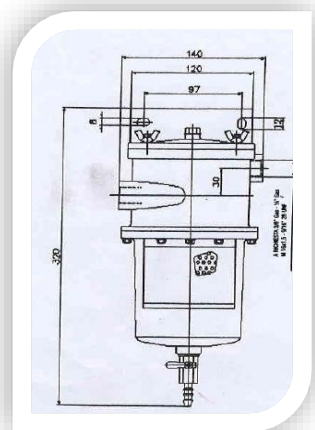


Tipo FPG 21D/23D - Prefiltro per gasolio a doppia stazione filtrante
La prima unità con elemento filtrante in acciaio inox separa le particelle più pesanti e l'acqua dal carburante, inoltre tramite il "water signal" segnala la presenza dell'acqua. La seconda unità, con elemento in carta, completa in maniera ottimale il filtraggio.

FPG 21D/23D – Double filtering station Diesel pre-filter.

The first unit, containing an inox filtering element, divides the water and heavier particles from the fuel, while the "water signal" is able to signalize the presence of water. The second paper element unit concludes an excellent filtering operation.

Tipo	Codice	Portata L/h		Attacco	Cartuccia
		OP	MAX		
FPG21DIC/WS	3826	400	600	3/8"	1662/1663
FPG23DIC/WS	2171	450	650	1 /2 "	1662/1663
FPG21DIC	3834	400	600	3/8"	1662/1663
FPG23DIC	3835	450	650	1/2"	1662/1663



Tipo FPG21-3/8" Tipo FPG 23-1/2" Prefiltro centrifugo separatore acqua/carburante per "gasolio e benzina"

Elemento filtrante in acciaio inox o carta. Il flusso centrifugo separa le particelle più piccole, con una azione filtrante eccezionale. Universale per tutti i motori. Costruito con materiali a norme R.I.Na

FPG21-3/8" - FPG 23-1/2 Centrifugal water/fuel divider pre-filter (diesel and gasoline).

Inox or paper filtering element. The centrifugal flux provides a good filtering division of the smallest particles. Universally compatible with all engine types. Built with R.I.Na certified materials.

Tipo	Codice	Portata L/h		Attacco	Cartuccia
		OP	MAX		
FPG21 I	1607	600	1000	3/8"	1662 inox
FPG21 C	2172	400	600	3/8"	1663 carta
FPG21 I/WS	2170	600	1000	3/8"	1662 inox
FPG21 C/WS	2173	400	600	3/8"	1663 carta
FPG23 I	2174	900	1200	1/2"	1662 inox
FPG23 C	2175	450	650	1/2"	1663 carta
FPG23 I/WS	2176	900	1200	1/2"	1662 inox
FPG23 C/WS	2177	450	650	1/2"	1663 carta

Note:

C = 10 micron paper filtering element (*elemento filtrante in carta 10 micron*)

I = 10 micron inox filtering element (*elemento filtrante in inox 10 micron*)

V = Transparent bowl (*coppetta trasparente*)

D = Double pre-filter (*prefiltro doppio*)

WS = Water signal (*segnalatore presenza acqua*)



PREFILTRO DECANTATORE BENZINA GASOLINE DECANTER PREFILTER



Tipo	Code	Attacco	O=l/h	M=l/h	Elem. filtrante
FWB-018	1570	1/4" gas	210	340	Carta 12 micron
FWB-018	1590	3/8" gas	260	410	Carta 12 micron
FWB-018V	1571	1/4" gas	210	340	Carta 12 micron
FWB-018V	1591	3/8" gas	260	410	Carta 12 micron
FWB-018V	2167	M14x1,5	260	410	Carta 12 micron

O=Portata ottimale **M**=Portata massima

CARATTERISTICHE TECNICHE

CORPO	:	Presso fuso in alluminio
BODY	:	Aluminium fusion
COPPA	:	Acciaio verniciato con polvere ipossidiche
BOWL	:	
V	:	Coppa trasparente in trogramid, resistente ai carburanti aggressivi
RUBINETTO DI SCARICO	:	Ottone
SUPPORT	:	Brass
SUPPORTO	:	Acciaio Inox
SUPPORT	:	Inox
VITERIE E TAPPI	:	Acciaio Inox AISI 304
SUPPORT	:	
MOLLA PER ELEMENTO	:	Acciaio Inox AISI 304
SUPPORT	:	
VALVOLA DI SCARICO	:	Ottone
SUPPORT	:	
ATTACCO (A RICHIESTA)	:	M 14 x 1,5
SUPPORT	:	
KIT ELEMENTO	:	Codice 1674
ELEMENT KIT	:	Code 1674



PREFILTRO DECANTATORE GASOLIO



Tipo	Codice	Attacco	O=l/h	M=l/h	Elem.filtrante
FWG-019	1572	1/4" gas	240	460	Inox 304 120 micron
FWG-019	1592	3/8" gas	280	580	Inox 304 120 micron
FWG 019	2155	M14x1,5	280	580	Inox 304 120 micron
FWG-019V	1573	1/4" gas	240	460	Inox 304 120 micron
FWG-019V	1593	3/8" gas	280	580	Inox 304 120 micron
FWG019V	2166	M14x1.5	280	580	Inox 304-120 micron

CARATTERISTICHE TECNICHE

CORPO	:	Presso fuso in alluminio
BODY	:	
COPPA	:	Acciaio verniciato con polvere ipossidiche
BOWL	:	
V	:	Coppa trasparente in trogramid, resistente ai carburanti aggressivi
RUBINETTO DI SCARICO	:	Ottone
SUPPORT	:	Brass
SUPPORTO	:	Acciaio Inox
SUPPORT	:	Inox
VITERIE E TAPPI	:	Acciaio Inox AISI 304
SUPPORT	:	
MOLLA PER ELEMENTO	:	Acciaio Inox AISI 304
SUPPORT	:	
VALVOLA DI SCARICO	:	Ottone
SUPPORT	:	
ATTACCO (A RICHIESTA)	:	M 14 x 1,5
SUPPORT	:	
KIT ELEMENTO	:	Codice 1675
ELEMENT KIT	:	Code 1674



PREFILTRO DECANTATORE GASOLIO DIESEL DECANTER PREFILTER



Tipo	Codic	Attacco	O=l/h	M=l/h	Elem.filtrante
FWG-019VR	1574	1/4" gas	240	460	1675
FWG-019VR	1594	3/8" gas	280	580	1675
FWG-020VR	1579	1/4" gas	240	460	1674
FWG-020VR	1589	3/8" gas	280	580	1674

CARATTERISTICHE TECNICHE

CORPO	:	Presso fuso in alluminio
BODY	:	Aluminium fusion
COPPA	:	Acciaio verniciato con polvere ipossidiche
BOWL	:	
V	:	Coppa trasparente in trogramid, resistente ai carburanti aggressivi
RUBINETTO DI SCARICO	:	Ottone
SUPPORT	:	Brass
SUPPORTO	:	Acciaio Inox
SUPPORT	:	Inox
VITERIE E TAPPI	:	Acciaio Inox AISI 304
SUPPORT	:	
MOLLA PER ELEMENTO	:	Acciaio Inox AISI 304
SUPPORT	:	
VALVOLA DI SCARICO	:	Ottone
SUPPORT	:	
ATTACCO (A RICHIESTA)	:	M 14 x 1,5
SUPPORT	:	
KIT ELEMENTO	:	Codice 1674
ELEMENT KIT	:	Code 1674



PREFILTRO DECANTATORE GASOLIO E BENZINA



Tipo	Codice	Attacco	O=l/h	M=l/h	Elem.filtrante
FWGB-018/D	1583	1/4" gas	210	340	1674 -1675
FWGB-018/D	1584	3/8" gas	260	410	1674 -1675

CARATTERISTICHE TECNICHE

ELEMENTO FILTRANTE IN CARTA	PAPER FILTER ELEMENT	:	CODE 1674
ELEMENTO FILTRANTE IN INOX	INOX FILTER ELEMENT	:	CODE 1675

PREFILTRO DECANTATORE DOPPIO COMMUTABILE PER GASOL



Tipo	Codice	Attacco	O=l/h	M=l/h	Elem.filtrante
FWG-019V/DC	1585	1/4" gas	240	460	1675
FWG-019V/DC	1586	3/8" gas	280	580	1675

CARATTERISTICHE TECNICHE

ELEMENTO FILTRANTE IN CARTA	PAPER FILTER ELEMENT	:	CODE 1674
ELEMENTO FILTRANTE IN INOX	INOX FILTER ELEMENT	:	CODE 1675

PREFILTRO DECANTATORE DOPPIO COMMUTABILE PER BENZINA E GASOLIO DOUBLE DIESEL AND GASOLINE DECANTER PREFILTER



Tipo	Codice	Attacco	O=l/h	M=l/h	Elem.filtrante
FWB-018V/DC	1587	1/4" gas	210	340	1674
FWB-018V/DC	1588	3/8" gas	240	460	1674

CARATTERISTICHE TECNICHE

CORPO	:	Presso fuso in alluminio
BODY	:	Aluminium fusion
COPPA	:	Acciaio verniciato con polvere ipossidiche
BOWL	:	
V	:	Coppa trasparente in trogramid, resistente ai carburanti aggressivi
RUBINETTO DI SCARICO	:	Ottone
SUPPORT	:	Brass
SUPPORTO	:	Acciaio Inox
SUPPORT	:	Inox
VITERIE E TAPPI	:	Acciaio Inox AISI 304
SUPPORT	:	
MOLLA PER ELEMENTO	:	Acciaio Inox AISI 304
SUPPORT	:	
VALVOLA DI SCARICO	:	Ottone
SUPPORT	:	
ATTACCO (A RICHIESTA)	:	M 14 x 1,5
SUPPORT	:	
KIT ELEMENTO	:	Codice 1674
ELEMENT KIT	:	Code 1674



FILTRO DECANTATORE CARBURANTE IN BRONZO NICHELATO O ALLUMINIO FUEL FILTER IN NICKELPLATED BRONZE OR ALUMINIUM

- Corpo in bronzo nichelato o alluminio
- Coperchio in bronzo nichelato o alluminio
- Elemento filtrante in acciaio inox316L
- Gurnizioni in neoprene

- AISI 316L stainless steel inside filter
- Neoprene oring
- Nickel-plated bronze or aluminium casing
- Nickel-plated or aluminium cover

*RI.NA MAC PATENTED

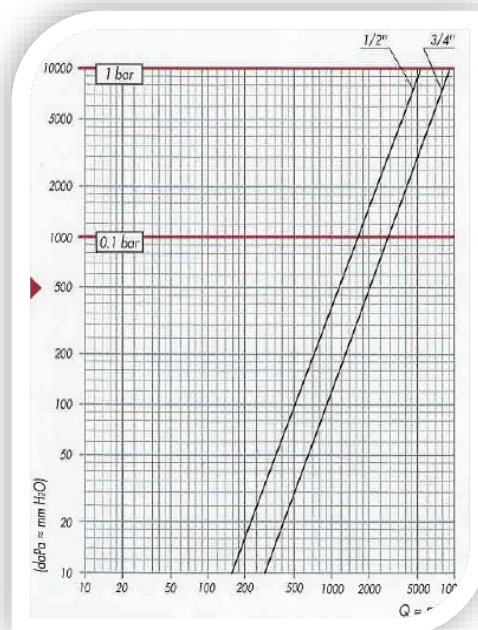
Peso (gr)- Alluminio	2780	2770
Peso (gr)- Bronzo	8900	8800
H	216	216
H1	155	155
L	262	262
G	1 / 2 "	3 / 4 "

G= ISO 228/1 (BS 2779)



Cod. 3850 = 1 / 2 " -Bronzo nichelato Cod. 3851 = 3 / 4 " -Bronzo nichelato

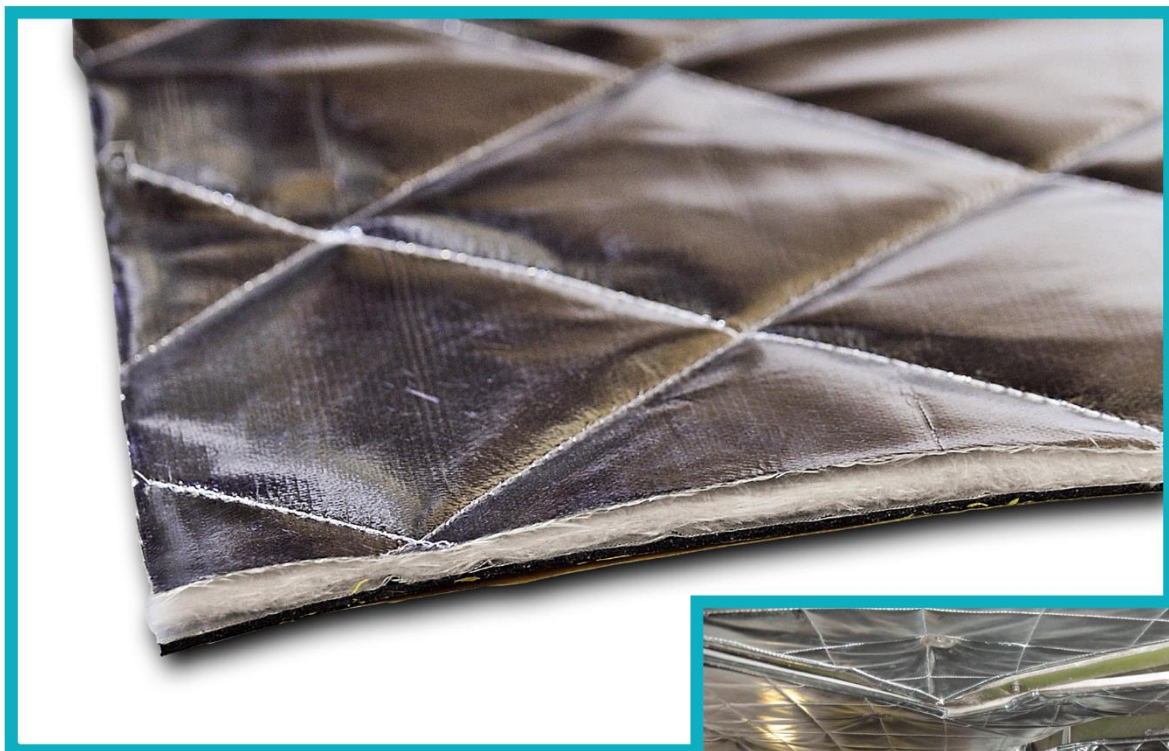
Cod. 3836 = 1 / 2 " -Alluminio anodizzato



	PORTATA	
G	0.1 BAR	1 BAR
1 / 2 "	1650	5340
3 / 4 "	2900	9400

Cod. 3837 = 3 / 4 " -Alluminio anodizzato

*Flow rate capacity through the clean filter (lt/h)

**INSULMATT 10 TR**

Composto dall'accoppiamento di feltro di vetro e tessuto di vetro mediante trapunta a rombi, INSULMATT 10 TR ha tra le sue caratteristiche principali l'incombustibilità, ormai richiesta sempre più frequentemente dai vari enti di classe navali.

Composed by the combination of glass mat and glass woven felt through a diamond pattern quilt, INSULMATT 10 TR has among its principal characteristics the total incombustibility, which represents nowadays a minimal safety requirement by various naval authorities.

**POLIFIB 30**

CLASSE 1 UNI8457+UNI9174
DIR. 94/25/CE - ISO 4589/3

POLIFIB 30 MED

MODULO B MED
CERT. N° 0987/MED-B/179

POLIFIB 30 TR

CLASSE 1 UNI8457+UNI9174
DIR. 94/25/CE - ISO 4589/3

FIBRALL 16

DIR. **UL94HF1**

FIBRALL 16 FK

CLASSE 1

FIBRALL 30 FP

CLASSE 1

ALLUMIN 16

DIR. **UL94HF1**

ALLUMIN 30

DIR. **UL94HF1**

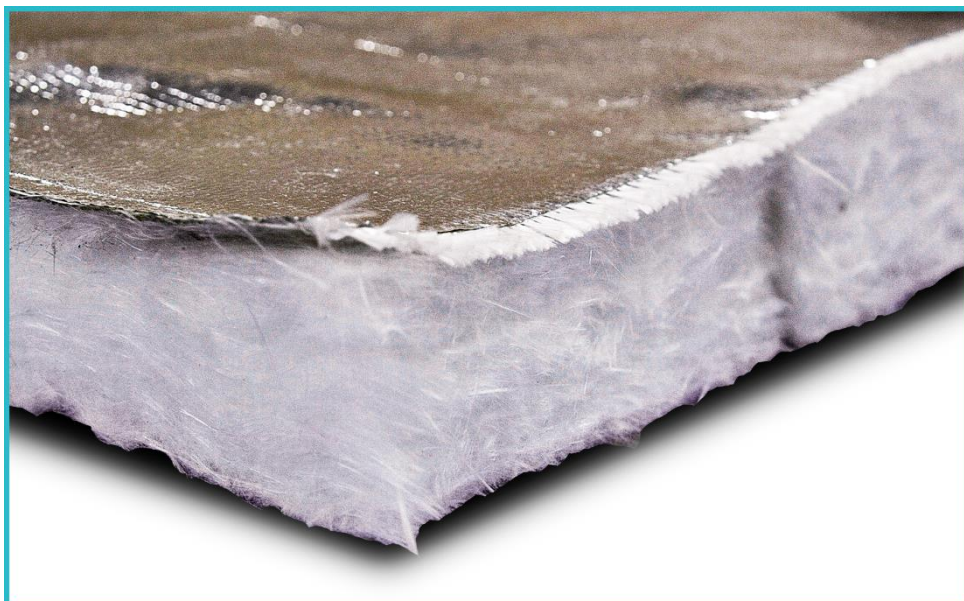
ISOSOUND PE-MR

DIR. **UL94HF1**

POLIFIX 96DWL53

ADESIVO LIQUIDO
LIQUID ADHESIVE

ACCESSORIES

**INSULMATT 20 E-GLASS**

Assemblato senza l'utilizzo di sostanze nocive l'INSULMATT 20 E-GLASS ha dimostrato elevate capacità attenuanti acustici, ottime caratteristiche *isoterm* e di reazione al fuoco, tossicità ed emissione fumi.

Composto dall'accoppiamento di feltro di vetro e tessuto di vetro mediante trapunta, ha tra le sue caratteristiche l'incombustibilità, ormai sempre più frequentemente richiesta dai vari enti di classe navali

I'INSULMATT 20 E-GLASS has shown an excellent acoustic insulation capacity, as well as thermal, toxicity and smoke emission insulation, fire resistance.

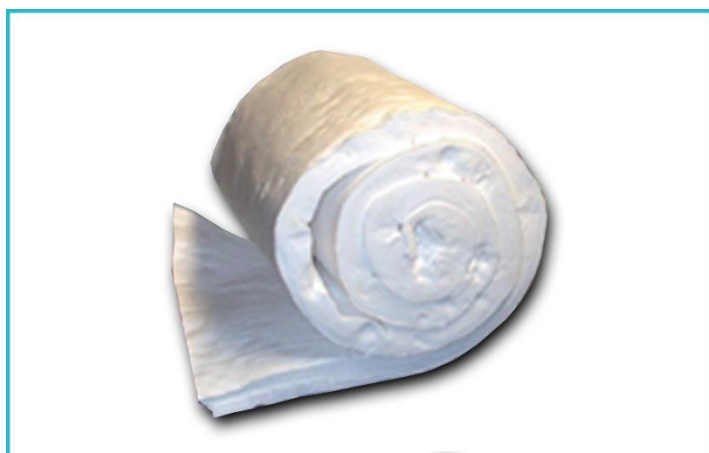
100% free from harmful substances!

**COPERTA ANTINCENDIO**

FIRE TEST BS476PART.7 CERT. CL1

**NASTRO NXT 1000**

REALIZZATO CON FILO DI CERAMICA T 0 - 750°C
BUILT WITH CERAMAWARE TEMP. 0 - 750°C

**FIBRA CERAMICA**

INERENTE AGLI SBALZI TERMICI (MAX. 1000°C)
IMMUNE TO THERMAL SHOCKS (MAX. 1000°C)

**COPRITURBO**

COPRITURBO DI VARIE DIMENSIONI S-M-L
VARIOUS DIMENSIONS (S-M-L) TURBO COVER



PRODOTTI DI MANIFATTURA RIGOROSAMENTE **"MADE IN ITALY"** - PORTACANNE; PORTAGOMMA; VALVOLE; FILTRI; PRESE A MARE ED ECC...

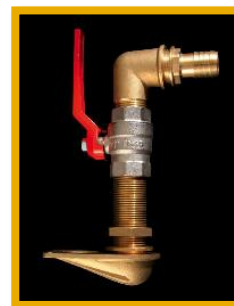
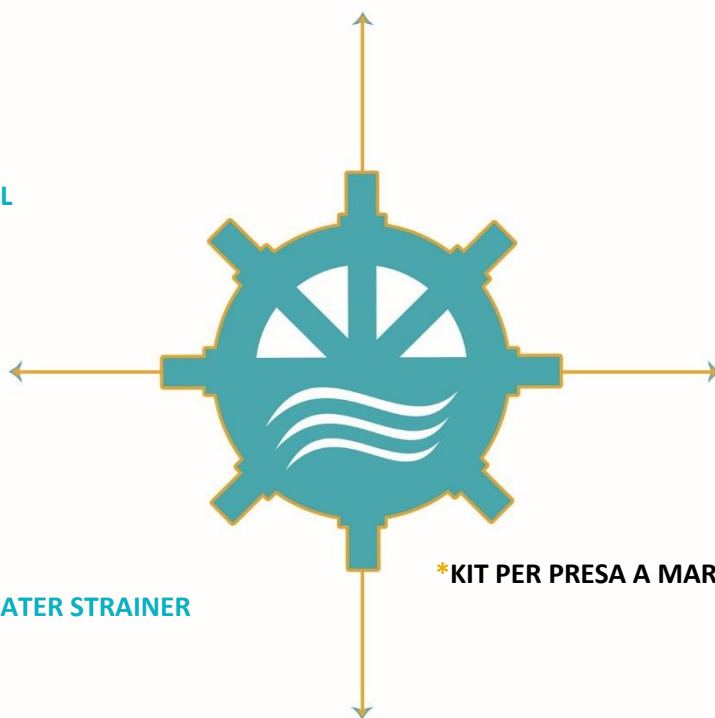
HIGH QUALITY **"MADE IN ITALY"** MANUFACTURING PRODUCTS LIKE ROD HOLDERS; HOSE CONNECTIONS; VALVES; FILTERS; INTAKE ECC...

*PORTACANNE — **ROD HOLDERS**



- PRESA A MARE IN OTTONE
- **BRASS INTAKE STRAINER**

*SCARICHI A MARE — **THROUGH HULL**



*FILTRO DEPURAZIONE ACQUA — **WATER STRAINER**



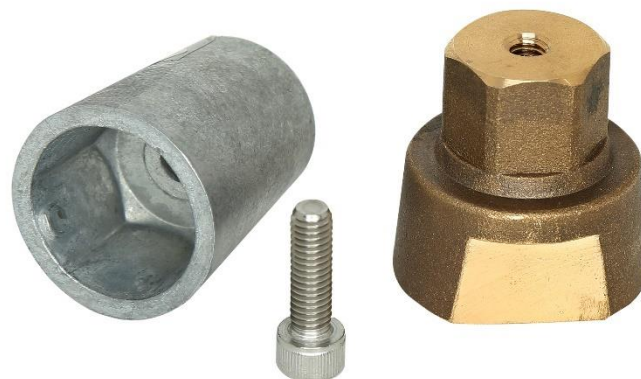
*KIT PER PRESA A MARE — **INTAKE STRAINER KIT**



*SFIATI — **TANK VENTILATORS**

ANODI SACRIFICALI DI QUALITÀ PER IMBARCAZIONI
ENTROBORDO, ENTRO-FUORIBORDO E FUORIBORDO.

HIGH QUALITY ANODES SUITED FOR BOTH INBOARD,
IN-OUTBOARD AND OUTBOARD CRAFTS.

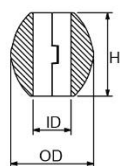


*ANODI PER TIMONI – RUDDER ANODES



The World's Best Shaft Anode
Design in

- Fit
- Longevity
- Bolt retaining washers prevent the anode from falling off – easy installation underwater



Full shaft contact
100% CIRCULAR RADIUS

INTERLOCKING
HALVES



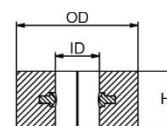
EXTRA
ALLOY
AROUND
FASTENER

TWO STAINLESS STEEL
HARDWARE
OPTIONS TO CHOOSE FROM...



Allen head w/lock
washer & bolt retaining
washer.

Slotted head w/lock
washer & bolt retaining
washer.



Bolt retaining washers
prevent the anode
from falling off – easy
installation underwater

TWO STAINLESS STEEL
HARDWARE
OPTIONS TO CHOOSE FROM



Allen head w/lock
washer & bolt retaining
washer.



Slotted head w/lock
washer & bolt retaining
washer.

*ANODI DI POPPA – HULL ANODES



MISURE E MATERIALI SIZES AND MATERIALS



UNS F51

F51 is a duplex stainless steel with a 50:50 austenite, ferrite microstructure.

The material combines good mechanical strength and ductility with moderate to good corrosion resistance in a variety of environments.

APPLICATIONS:

Propeller shafts, pump shafts, pins.

AISI 316 / 316 L

316/316L is an 18/8 austenitic stainless steel enhanced with an addition of 2.5% Molybdenum, to provide superior corrosion resistance to type 304 stainless steel.

316/316L has improved pitting corrosion resistance and has excellent resistance to sulphates, phosphates and other salts.

316/316L has better resistance than standard 18/8 types to sea water.

APPLICATIONS:

Propeller shafts, pump shafts, pins, and valve spindles. Corrosion resistance is similar to type 304.

AISI 630 / V174

AISI 630 is a martensitic precipitation hardening, chromium, nickel, copper, stainless steel.

The steel can be hardened by a single ageing treatment at relatively low temperatures, this minimizes any risk of distortion.

630 is an ideal selection when high strength and corrosion is required.

APPLICATIONS:

Propeller shafts, pump shafts, pins. Corrosion resistance is similar to type 304.

INCH → MM CONVERSION TABLE

INCH	0"	1/8"	1/4"	3/8"	1/2"	5/8"	3/4"	7/8"
0	0,00	3,18	6,35	9,53	12,70	15,88	19,05	22,23
1	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63
2	50,80	53,97	57,15	60,33	63,50	66,68	69,85	73,03
3	76,20	79,38	82,55	85,73	88,90	92,08	95,25	98,43
4	101,60	104,78	107,95	111,13	114,30	117,48	120,65	123,83
5	127,00	130,18	133,35	136,53	139,70	142,88	146,05	149,23
6	152,40	155,58	158,75	161,93	165,10	168,28	171,45	174,63
7	177,80	180,98	184,15	187,33	190,50	193,68	196,85	200,03
8	203,20	206,38	209,55	212,73	215,90	219,08	222,25	225,43
9	228,60	231,78	234,95	238,13	241,30	244,48	247,65	250,83
10	254,00	257,18	260,35	263,53	266,70	269,88	273,05	276,23
11	279,40	282,58	285,75	288,93	292,10	295,28	298,45	301,63
12	304,80	307,98	311,15	314,33	317,50	320,68	323,85	327,03
13	330,20	333,38	336,55	339,73	342,90	346,08	349,25	352,43
14	355,60	358,78	361,95	365,13	368,30	371,48	374,65	377,83
15	381,00	384,18	387,35	390,53	393,70	396,88	400,05	403,23
16	406,40	409,58	412,75	415,93	419,10	422,28	425,45	428,63
17	431,80	434,98	438,15	441,33	444,50	447,68	450,85	454,03
18	457,20	460,38	463,55	466,73	469,90	473,08	476,25	479,43
19	482,60	485,78	488,95	492,13	495,30	498,48	501,65	504,83
20	508,00	511,18	514,35	517,53	520,70	523,88	527,05	530,23
21	533,40	536,58	539,75	542,93	546,10	549,28	552,45	555,63
22	558,80	561,98	565,15	568,33	571,50	574,68	577,85	581,03
23	584,20	587,38	590,55	593,73	596,90	600,08	603,25	606,43
24	609,60	612,78	615,95	619,13	622,30	625,48	628,65	631,83
25	635,00	638,18	641,35	644,53	647,70	650,88	654,05	657,23
26	660,40	663,58	666,75	669,93	673,10	676,28	679,45	682,63
27	685,80	688,98	692,15	695,33	698,50	701,68	704,85	708,03
28	711,20	714,38	717,55	720,73	723,90	727,08	730,25	733,43
29	736,60	739,78	742,95	746,13	749,30	752,48	755,65	758,83
30	762,00	765,18	768,35	771,53	774,70	777,88	781,05	784,23

General Brochure



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