

PRODUCT CATALOGUE



your daily marine supplier



INTRODUCTION

We are pleased to introduce Vespion – an independent and privately owned Company that is located in port city Gdynia, Poland.

We provide Customers world-wide with our best services regarding spare parts supply for the maritime industry. Our wide scope of supply includes parts for engines, pumps, compressors, turbochargers, UV sterilizers and separators. We also deliver a lot of electrical, automation, hydraulic and pneumatic components.

With a support of well-known European makers and suppliers we offer a variety of high quality equipment with very reasonable prices. Orders are shipped from our warehouse where they are double checked and properly packed. Goods supplied by us are always covered by warranty.

Our policy and priority is to establish long term relationships with our customers, support them with our experience and always offer optimal services and solutions.

Relying on high quality products, good price, perfect service and professional technical support, Company has been already widely recognized by many repair Shipyards, Shipowners and Ship Management companies from all around the world.

Our coastal location allows us to dispatch spare parts anywhere in the world by air-freight, sea-freight or by truck.

As our goal is to be one of the leading suppliers in Europe, we continuously make efforts and develop ourselves to reach all our customer's requirements.

This Catalogue shows the products that we supply on regular basis. However, in case you require goods that are not included here, you are welcome to contact us as well. We will help you to find what is needed and gladly become your daily marine supplier.

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Engines Spare Parts

Marine diesel engines are almost identical to land-based automotive engines. Generally, they are larger in size and equipped with sophisticated systems to operate at a higher efficiency. Marine engines consist of four-stroke and two-stroke diesel engines. Four-stroke engines are primarily used in container ships and bulk carriers, while large two-stroke engines are typically installed for slow speed ships. Generally, marine engines can be classified into three main categories: slow speed, medium speed and high speed engines.

The selection category is based on the size, engine speed and the purpose of their operation. Slow speed engines normally operate below 350 rpm and have very minimum fuel consumption. In terms of size, they are the biggest engines in the world which use heavy fuel oil for combustion. Medium speed marine engines run with speeds between 350 and 750 rpm and are generally used as main propulsion or auxiliary engine on-board ships. High speed marine engines have revolutions of more than 750 rpm. They are designed to provide high power output with minimum weight and size and used on boats and smaller ships.

Example Brands and Models

Sulzer:

Z40, ZA40, ZA40S, S20, S20H, S20U, AL20/24, AL20D, AL20R, AL20H, AL25/30, ASL25/30, ASL25D, ASL25H, ATL25D, ATL25H, RTA58, RTA62

Zgoda:

ZL40/48, ZV40/48, ZAV40/48, ZA40S, ZAL40S, ZAV40S, ZAL40, ZAL40S

MAK:

M20, M25, M32, M43, M46

MAN B&W:

L16/24, L23/30H, L28/32H, L35, L45, L50, L60, L70, S35, S50, S60

Deutz:

350, 358, 640, 540, 628, 528, 816

Volvo Penta:

TAMD 30/31/40/41/42/60/61/63/70/71/73/100/102/103/120/122/123/162/163/165

Wartsila:

L20

Woodward Governors:

UG-8, UG-8L, UG-8D, PGA

Daihatsu:

DK20



SULZER

ZGODA

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Connecting Rod for MAN B&W Engine type L28/32H

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Sulzer Engines Spare Parts

Sulzer AL20/24 are produced in several custom variants. Most commonly built versions were:
6-cylinder versions: 6AL20 / 24 and 8-cylinder versions: 8AL20 / 24. Many of these engines work as the main propulsion of fishing vessels, tugs and other auxiliary vessels, showing great performance.

ATL25 series (ATL25 / 30) is a modernized version of the AS25 H engines – with four-valve cylinder head, bore-cooled with 2+2 valves. These engines can run on light MDO or heavy HFO.

Sulzer Z-series are 4-stroke and medium speed engines. Most of them work as main propulsion on the medium size ships, some were designed for stationary power generators and other as reserve power source for nuclear power plants.

S20 engine is a classic 4-stroke engine, with a built number of cylinders depending on the model ranging from 4 to 9. Sulzer S20 engine offers low operational costs due to low-time consumption maintenance and long maintenance intervals. It is known for its low fuel and lubricating oil consumption.

Models and example parts

Sulzer Z-Series:

MODELS: Z40, Z40/48, 6ZL40/48, 8ZL40/48, ZA40, ZA40S, 6ZA40S, 8ZA40S, 6ZAL40S, 8ZAL40, 8ZAL40S, 9ZAL40S, 12ZAV40S, 16ZAV40S, 18ZAV40S, 12ZV40/48, 16ZV40/48

EXAMPLE SPARE PARTS:
- K21401 CYLINDER LINER
- K34103 PISTON SKIRT
- K27101 CYLINDER COVER
- K34101 PISTON CROWN

Sulzer S-Series:

MODELS: 4S20, 4S20U, 6S20, 6S20U, 8S20, 8S20U, 9S20, 9S20U

EXAMPLE SPARE PARTS:
- 3101/A102 CRANKSHAFT
- 2724/B001 NOZZLE
- 5510/E001 PLUNGER AND CYLINDER
- 2703/B102 CYLINDER COVER
- 3401/A121 PISTON CROWN
- 2103/B102 CYLINDER LINER

Sulzer A-Series:

MODELS: AL20/24H, AL20/24D, AL20R, AL20H, AL25/30, ASL 25/30, ASL25D, ASL25H, ATL25D, ATL25H, ATL25/30, ATL25RWHFO, AV25/30, ASV25/30, ASV25H, ATV25H, ATV25/30

EXAMPLE SPARE PARTS:
- H27240 NOZZLE
- H55030 PLUNGER AND CYLINDER
- H34001 PISTON
- H21400 CYLINDER LINER
- H27000 CYLINDER COVER

SULZER

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Fuel Pump for Sulzer Engine type: AL20/24D

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Wartsila L20 Engine Spare Parts

Wartsila Corporation is a Finnish company that was founded in year 1834. It is one of the leading manufacturers of diesel, heavy fuel, gas and dual fuel engines for marine and energy markets.

The core products of Wartsila include technologies for energy sector, including gas, multi fuel, liquid fuel and biofuel power plants and energy storage systems. Marine engines are installed on cruise ships, ferries, fishing vessels, merchant ships, navy ships, special vessels, tugs, yachts and offshore vessels.

Wartsila L20 is a compact and lightweight marine engine. It offers fuel flexibility and reliable performance in genset and main engine applications. The dual-fuel version is a great choice for many vessel types, including hybrid installations.

The engine is available in cylinder configurations: 4L20, 6L20, 8L20 and 9L20 with the power output ranging between 740 and 1980 kW at 900, 1000 and 1200 rpm. Vespion delivers complete scope of spare parts for these engine models - from the pistons through nozzles and bearings to the small gaskets.

Example Parts

CYLINDER HEAD WITH VALVES, PART NO.: 120025
 EXHAUST SEAT RING, PART NO.: 120022
 CYLINDER HEAD, PART NO.: 120001
 PISTON COMPLETE, PART NO.: 113001
 CONNECTING ROD, PART NO.: 111001
 LOWER BIG END BEARING SHELL, PART NO.: 111005
 UPPER BIG END BEARING SHELL, PART NO.: 111006
 UPPER BIG END BEARING SHELL, PART NO.: 111006
 BIG END BEARING SET, PART NO.: 111010
 FUEL INJECTION PUMP, PART NO.: 165001
 INJECTION VALVE, PART NO.: 167005
 NOZZLE, PART NO.: 167020
 NOZZLE HOLDER, PART NO.: 167046
 PUSH ROD, PART NO.: 167016
 INJECTION VALVE, PART NO.: 167005
 FUEL PIPE, PART NO.: 167012
 CONNECTION PIECE, PART NO.: 167003
 LEAK OIL PIPE, PART NO.: 167027
 PISTON RING, PART NO.: 113004
 PISTON RING, PART NO.: 113005
 PISTON RING, PART NO.: 113006
 EXHAUST VALVE, PART NO.: 121006
 LUBRICATING OIL PUMP, PART NO.: 181001
 WATER PUMP, PART NO.: 191001
 INLET VALVE, PART NO.: 121012
 GEAR RIM, PART NO.: 114008
 PRESSURE REGULATING VALVE, PART NO.: 218007
 THERMOSTATIC ELEMENT, PART NO.: 183003
 THERMOSTATIC ELEMENT, PART NO.: 196015
 PRESSURE GAUGE, PART NO.: 516047
 PRESSURE GAUGE, PART NO.: 516048
 PRESSURE GAUGE, PART NO.: 516049



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Set of spare parts for Wartsila Engine type: 6L20

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Gaskets for Wartsila Engines

Our Company is specialized in supply of gaskets and sealing sets for various Wartsila gas and diesel engines that are used in ship industry, power plants and offshore platforms.

Materials and characteristics of the individual items reflect the technical specification of the original maker.

We supply the seals for the following applications of the engines:

- for cylinder head overhaul
- for cylinder liner
- for starting valve
- for injection valve
- for main starting valve
- for hydraulic jack
- for turbocharger
- for exhaust system
- for injection pump
- for actuator
- for centrifugal filter
- for engine block
- for prelubricating oil pump
- for cover
- for fuel filter
- for crankshaft

Engine Models

Wartsila W20:

4L20, 6L20, 8L20, 9L20

Wartsila W20DF:

6L20DF, 8L20DF, 9L20DF

Wartsila W26:

6L26, 8L26, 9L26, 12V26, 16V26

Wartsila W32:

6L32, 7L32, 8L32, 9L32, 12V32, 16V32, 18V32

Wartsila VASA 32:

4R32, 6R32, 8R32, 9R32, 12V32, 16V32, 18V32

Wartsila W34DF:

6L34DF, 9L34DF, 12V34DF, 16V34DF

Wartsila W34SG:

12V34SG, 16V34SG, 20V34SG

Wartsila W38:

6L38, 8L38, 9L38, 12V38, 16V38

Wartsila W46F:

6L46F, 7L46F, 8L46F, 9L46F, 12V46F, 14V46F, 16V46F

Wartsila W50DF:

6L50DF, 8L50DF, 9L50DF, 12V50DF, 16V50DF, 18V50DF



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Set of Gaskets for Wartsila Engine type 6L20

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Turbochargers Spare Parts

Marine turbochargers boost the performance of marine diesel engines and generate electricity for consumption on board the ship. They work by using exhaust gases to power a generator which is installed on the rotor shaft of the turbocharger. This generator acts as an exhaust heat recovery device, resulting in energy savings. Turbochargers consist of a single-stage exhaust gas turbine and a centrifugal compressor which are mounted on the same shaft to form the moving part (rotor).

The function of the marine turbocharger is to boost engine performance so to realize these propulsion optimizing functions, the device uses a few geometry-based maneuvers to funnel at engines' exhaust gasses.

Essentially, the turbine geometry tames and focusses the fluid discharge, then feeds it back into the engine as a secondary fuel-ignition medium. Engine aspiration goes up, fuel consumption goes down and there is additional power under the throttle controller.

Example Brands and Models

Mitsubishi:

33MA, 42MA, 53MA, 60MA, 66MA, 71MA, 83MA, 90MA, 33MB, 42MB, 53MB, 60MB, 66MB, 71MB, 83MB, 90MB, 33SEII, 42SEII, 53SEII, 66SEII, 71SEII, 83SEII, 90SEII, 33SD, 42SD, 53SD, 66SD, 71SD, 83SD, 90SD, 33SE, 66SR

MAN:

TCR10, TCR12, TCR14, TCR16, TCR18, TCR20, TCR22, NR12S, NR14S, NR15, NR17S, NR20S, NR24S, NR29S, NR34S, TCA33, TCA44, TCA55, TCA66, TCA77, TCA88, NA29S, NA34S, NA40S, NA48S, NA57, NA70

WSK Rzeszow:

52 (C-045)

ABB:

VTR 401-2P, VTR 160, VTR 161, VTR 200, VTR 250 N, VTR 251, VTR254, VTR304, VTR 320, VTR354, VTR 400, VTR 401, VTR454, VTR 500, VTR 501, VTR564, VTR 630, VTR 631, VTR 214, VTR 254, VTR 354, VTR 454, VTR 564, VTR 714, VTC 214, VTC254, VTC 254A, TPL 61, TPL 65, TPL 65A, TPL 67, TPL 69, TPL 73, TPL 77, TPS 48, RR 150, RR 151-14, RR 181-14, RR 180

KBB:

M40, M50, M60, R2-2, R3-2, R3-3, R4-2, R4-3, R5-3, HPR 3000, HPR 4000, HPR 5000, HPR 6000, ST2, ST3, ST4, ST5, ST6, ST7, H3, H5, H6, H7

Napier:

NA155, NA225, NA256, NA295, NA297, NA298, NA307, NA355, NA357, NA358, NA397, NA398, NA457, NA498, NA557, HP200, HP100, SA105



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Spare parts for ABB VTR 320 Turbocharger

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Air Compressors Spare Parts

Air compressor produces pressurized air by decreasing the volume of air and in turn increasing its pressure. Such compressor is a multipurpose device which finds many applications on a ship, like: main air compressor, topping up compressor, deck air compressor and emergency air compressor. Main air compressor is used to supply highly pressurized air to start main and secondary engines. It has an air storage bottle which stores the pressurized air. There are available different capacities of the main air compressors, but minimum 30 bars is required to start the main engine. Topping up compressor is used to cater to any sort of leakage in the system. With leakage in system, the air pressure drops below the recommended level and shall be replenished to its specified level by topping up compressor which will supply pressurized air. Deck air compressors are used for deck use and as service air devices. These are lower capacity pressure compressors as the pressure required for service air is in between the range of 6 to 8 bar. An emergency air compressor is used for starting the auxiliary engine at the time of an emergency or when the main air compressor has failed for filling up the main air receiver.

Example Brands and Models

Alup:

Largo, Lento, SCK, SCG, Allegro, Solo, Opus

H.Cegielski:

SC-115, SC1-115, SC2-115, SE-160A, SE2-160A, SF-125, SF1-125, SF2-125

Hamworthy:

2MF6, 2MF64, 2SF3, 2SF34, 2SF4, 2SF42, 2TF5, 2TF542TM6, 2TM61, 2TM62, 2TM63, V150, V200, V250

Sperre:

HL2/105, HL2/120, HL2/140, HL2/160, HL2/77, HL2/90, HLF2/77, HV1/120, HV1/140, HV1/140A, HV1/156, HV1/156A, HV1/85, HV2/200, HV2/210, HV2/220, HV2/240, HV2/270, HV2/270A, HV2/285, HV2/285A, HV2/300, LL2/105, LL2/120, LL2/125, LL2/140, LL2/160, LL2/180, LL2/77, LL2/90, LL50

Sauer and Sohn:

WP13, WP15, WP18, WP22, WP25, WP32, WP33, WP40, WP45, WP50, WP60, WP65, WP100, WP101, WP120, SP135, WP150, WP151, WP160, WP200, WP225, WP250, WP280, WP310, WP400, SCK22, SCK26, SCK41, SCK42

Hatlapa:

L9, L13, L14, L15, L18, L20, L35, L45, L50, L80, L100, L130, L160, L190, L220, L260, L270, W25, W30, W35, W40, W45, W55, W80, W110, W140, W220

Tanabe:

H-63, H64, H-73, H-74, H-263, H-264, H-273, H-274, H-373, H-374, HC54A, HC65A, HC264A, HC265A, HC275A, HC277A, VH-275, VH-477, VHL-74



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Piston for H.Cegielski Air Compressor type SF2-125

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Refrigeration Compressors Spares

Marine refrigeration is a type of refrigeration system used on ships and other marine vessels to keep food, beverages, and other perishable items cold or frozen. Marine refrigeration systems can be found in a variety of applications, such as commercial fishing vessels, cargo ships, cruise ships, and yachts. They typically use a vapor compression cycle similar to that used in land refrigeration systems. The main components of a marine refrigeration system include: compressor, condenser, evaporator and expansion valve. In addition to food and beverage storage, marine refrigeration systems can also be used for other applications on a ship, such as air conditioning, engine cooling and medical or laboratory equipment. The compressor acting as a circulation pump for refrigerant has two safety cut-outs - low pressure and high pressure cut outs. When the pressure on the suction side drops below the set valve, the control unit stops the compressor and when the pressure on the discharge side shoots up, the compressor trips. Refrigeration compressor is a device responsible for compressing the refrigerant gas and raising its temperature and pressure before it enters the condenser unit.

Example Brands and Models

Carrier:

5F20, 5F30, 5F40, 5F60, 5H40, 5H60, 5H80, 5H120, 5H46, 5H66, 5H88, 5H126

Wuch Dębica:

W92, D58

Bock:

AM2, AM3, AM4, AM5, F1, F2, F3, F4, F5, F14, FZ16, FDK3, FDK4, FDK5, FDK14, FDK16, HG4, HG5, HG6, HG7, HG8, HG12P, HG22P, HG34P, HG27

Sabroe:

SMC 6-100, SMC 106S/L/E, SMC 108 S/L/E, SMC 112 S/L/E, SMC 116 S/L/E, CMO 24, CMO 26, CMO 28, CMO 34, CMO 36, TCMO 28, TCMO 38, SAB 120S/M/L/E, SAB 151 S/M/L/E, SAB 193 S/L, SAB 233 S/L, SAB 283 S/L/E/X, SAB 355 S/L/E/X, SAB 110, SAB 128, SAB 163, SAB 202

Bitzer:

N.2, 2T.2, 6F-40.2Y, 6F-50.2Y, 6F-40.2, 6F-50.2, 4G 20, 4G 30, 6G 30, S6G 25, 44G 40, 44G 60, 66G 60, 66G 80, 4G-20.2Y, 4G-30.2Y, 6G-30.2Y, 6G-40.2Y, 2HC-1.2Y, 2HC-2.2Y, 6H-25.2Y, 6H-35.2Y, 4H-15.2Y, 4H-25.2Y, 4H-25.2

Grasso:

SH, MC, LT, RC9, RC10, R11, RC12, RC12E

Mycom:

125, 160, 200, 250, 320, 1612, 2016, 2520, 3225



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Spare Parts for Bitzer Compressor type 6F-50.2Y

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Atlas Copco Screw Oil Free Air Compressors „Z” Series Spares

Atlas Copco „Z” compressor series is focused on effectively saving energy, ensuring product safety – as only oil-free machines exclude contamination risks for 100%. These compressors have set the benchmark for durability and are built using long-standing internal engineering practices. They are produced from high quality materials what guarantees the best performance. This makes them a perfect choice for the places where the presence of oil is not desired.

„ZR” and „ZT” compressors guarantee 100% pure, clean air that complies with ISO 8573-1 CLASS 0 (2010) certification. This means zero risk of contamination, zero risk of damaged products and zero risk of losses from operational downtime.

Oil-free rotary screw compressors are designed to achieve low lifecycle costs and deliver high-quality air for industry standards. They are used in the following industries: food & beverage, pharmaceutical, automotive, medical, textile, power generation, chemical, battery production.

Example Models

ZR Series:

ZR 3, ZR 4, ZR 5, ZR 6
ZR75, ZR75VSD, ZR90, ZR90VSD, ZR110, ZR110VSD
ZR132, ZR132VSD, ZR145, ZR145VSD, ZR160, ZR160VSD
ZR200, ZR200VSD, ZR250, ZR250VSD, ZR275, ZR275VSD
ZR315, ZR315VSD, ZR355, ZR355VSD, ZR400, ZR400VSD
ZR425, ZR425VSD, ZR450, ZR450VSD, ZR500, ZR500VSD
ZR630, ZR630VSD, ZR750, ZR750VSD, ZR900, ZR900VSD

ZT Series:

ZT75, ZT75VSD, ZT90, ZT90VSD, ZT110, ZT110VSD
ZT132, ZT132VSD, ZT145, ZT145VSD, ZT160, ZT160VSD
ZT200, ZT200VSD, ZT250, ZT250VSD, ZT275, ZT275VSD
ZT315, ZT315VSD, ZT355, ZT355VSD, ZT400, ZT400VSD
ZT425, ZT425VSD, ZT450, ZT450VSD, ZT500, ZT500VSD
ZT630, ZT630VSD, ZT750, ZT750VSD, ZT900, ZT900VSD



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Spare parts for Atlas Copco Compressor type: ZR250

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Pumps

Vespion is able to deliver both complete pumps used in marine and offshore industries and spare parts to these pumps.

Pumps that are installed onboard are important elements of ship auxiliary machinery. We could divide them into two categories: marine water pumps and marine oil pumps, while the conveying media are mainly seawater, fresh water, sewage, diesel oil and lubricating oil.

Basing on their function, they can be listed as follows:

- fuel supply pumps
- lubricating oil pumps
- fuel transfer pumps
- sea water cooling pumps
- boiler feed water pumps
- hydraulic pumps
- bilge water pumps
- ballast water pumps
- high pressure fire fighting pumps
- cargo oil pumps
- mud pumps
- water jet propulsion pumps

Example Brands and Models

ALLWEILER: BAS, SNF, SPF, SPZ, TRD, TRF, TRE, ZAS, ZASV
 ATOS: PFED, PFEX, PFRX, PVPCX2E, PVPCX2C
 AZCUE: BT-HM, BT-IL, BT-LV, CA, CM, LN, VM
 BEHRENS: VNF, VRF, VRW
 BIAŁOGON: RX, RY, RZ, Z2K, PTM, HL, PS, PM, PZ, RJ, RJM, RWM
 BORNEMANN: EL, EH, E2, E2L, E2H, E2C, E2S, E2U, E4C, E4H, E4L, FL
 BRAN+LUEBBE – SPX: PROCAM, NOVADOS, NOVAPLEX
 CALPEDA: N, NM, NMD, NMS, N4, MXH, MXHL, MXP, MGP, MXSU, MXV
 DESMI: S, SA, SL, NSL, DSL, ESL
 GRUNDFOS: CM, CME, CR, CRI, CRN, CRE, CRIE, CRNE, CRT, CRK, RN
 GZUT: WA, WL, WSA, TKE, PA
 HAMWORTHY: CG, C2G, 5x3V, 5x4V, B5x3VP, B5x4VM, B8x6VM, DB
 HEISHIN: V, VDK, VK, VSK, CY, GNA, HCY, HK
 HYDRO-VACCUUM: S, SK, SKA, SKB
 HYDROSTER: ACE, ACG, ACF, ABQ, PZ, PT, SPV, PPZA, SOK
 IMO: ABQ, ACE, ACF, ACG, ACP, ALA, LPD, LPQ
 IRON PUMP: BC, BDV, CHV, CN, CVLS, DHB, DHBS, QH, QT, QV, RS, RSM
 KRAL: K
 LOWARA: CA, CEA, CO, DL, DN, DOC, GL-GLV, PS2
 MARFLEX: MDPD, MDPC, MBDPC, MODP
 NETZSCH: NM, NE, NU, NL
 SVANEHOJ: DL, DW, CKL
 THUNE EUREKA: CAB, CAC, CAD, CBA, CBB, CGA, CGB, CGC, CGD, CGE
 TOFAMA: PSR32, PSR4
 WPH: PZ4, PZ3, PZ2-K-25, PZ2-K-10P, TGL

Hydroster



DESMI

calpeda®



Behrens Pumpen



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IMO Pump type: ACG070

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Behrens and Azcue Pumps Spares

Behrens Pumpen is a German manufacturer – an expert in centrifugal pumps for marine industry. Centrifugal Pumps are dedicated for transferring fluids. They use a rotating impeller to move the fluids applying centrifugal force. Centrifugal Pumps can generally operate with large quantities of fluids and very high flow rates.

Behrens Pumpen produces ballast pumps, bilge pumps, cooling pumps and successfully delivers his products on many new building projects in Europe, China and Korea.

Azcue is one of the world's oldest pump manufacturers. It was established in Spain and through all years delivered thousands of pumps for marine industry. Azcue Pumps are used onboard in the following applications: engine cooling, fire support, oil and lubricants, fuel, bilge and ballast water treatment systems. In addition, Azcue is a strong player in the oil and gas industry. Pumps from Azcue can be found in plenty of offshore applications such as: cooling systems, crude / oil extraction, transfer systems, drainage and recirculation.

Models

Behrens:

- VNF 1/325
- VNF 2/325
- VNF 3/300
- VNF 3/325
- VNF 3/400
- VNF 4/300
- VNF 4/325
- VNF 5/300
- VNF 5/325
- VNF 7/300
- VRF 1/350 G
- VRF 3/350 G
- VRF 5/350 G
- VRF 5/350 SG
- VRF 7/290 G
- VRF 7/350 G
- VRF 7/350 SG
- VRF 8/320 G
- VRF 9/320 S
- VRF 9/350 G
- VRW 3/350 G
- VRW 5/350 G
- VRW 7/290 G
- VRW 7/350 SG

Azcue:

- BODT BT-HM 25
- BT-HM 25D2
- BT-HM 25D3
- BT-HM32D2
- BT-HM38D3
- BT-IL-38
- BT-IL 582D4
- BT-IL 70D2
- BT-IL 80T
- BT-IL-45D2
- BT-IL-52D4
- BT-IL-60
- BT-LV 100T2
- BT-LV 125
- CA-125/100
- CM-100/40
- CM-150/265
- CM-200/33B
- CM-80/40
- LN 65/160
- LN-EP 40-125
- VM-50/33
- VM-80/33
- VM-EP 100/40A

Behrens Pumpen



azcue

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Impeller for Behrens Pump type VRF 3/350 G

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UV Sterilizers Spare Parts

UV Sterilizers (called also UV Disinfection Units) are devices extremely effective in killing microorganisms such as airborne and waterborne bacteria, viruses, yeasts and molds. Germicidal lamps are used extensively in the air and water purification applications including drinking water, ultrapure water, food and beverage industry, medical application, room sterilization and sewage treatment. Vespion specializes in UV Sterilizers that are installed onboard of marine vessels.

We are able to offer the following elements: starters (ballasts), UV lamps, plugs, sockets, o-rings, washers, quartz tubes (quartz glasses), quartz sleeves, UV sensors, UV meters, UV regulators and indicators.

We are strongest in spare parts for DOE UV Sterilizers – DOE Seahorse series, models from DOE Seahorse A to DOE Seahorse H. We supply also parts for Alfa Laval Pureballast series, Ueberall, Westfalia and Nippon Control UV Disinfection Units.

Example Brands and Models

DOE:

H001 SEAHORSE 0 0-0-0
H15 SEAHORSE A
H48 SEAHORSE A
H002 SEAHORSE A 0-0-0
H003 SEAHORSE B 0-0-0
H16 SEAHORSE B
H49 SEAHORSE B
H17 SEAHORSE C
H46 SEAHORSE C
H004 SEAHORSE C 0-0-X
H021 SEAHORSE C 0-0-X
H028 SEAHORSE C 0-0-X
H030 SEAHORSE C 0-0-X
H033 SEAHORSE C 0-0-X
H034 SEAHORSE C 0-0-X
H023 SEAHORSE D 0-0-X
H027 SEAHORSE D 0-0-X
H035 SEAHORSE D 0-0-X
H037 SEAHORSE D 0-0-X
H004 SEAHORSE E 0-0-0
H47 SEAHORSE E
H006 SEAHORSE E 0-0-0
H022 SEAHORSE E 0-0-X
H26 SEAHORSE F
H008 SEAHORSE G 0-0-0
H019 SEAHORSE G 0-0-X
H020 SEAHORSE G 0-0-X
H009 SEAHORSE H 0-0-0

Alfa Laval:

UVK-1, UVK-2, UVK-3, UVK-4
UBK-1
PUREBALLAST – all types

Ueberall:

UBK, UB2, UB3, UVK3, UVK3L
UBR, UB2, UB3

Nippon Control's:

L-N101F, L-N201F, L-N501F
LL-3F, LL-5F, LL-10F, LL-20F

Severn Trent:

8120-GIE-100, 8102-HO-200,
8102-LI15, 8102-GIE-30

Panasia:

GloEn-Patrol 2.0
GloEn-Patrol UV UNIT PU1000
GloEn-Patrol UV UNIT PU250, PU500



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Spare parts for DOE UV Sterilizer, type: Seahorse A

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Separators and Purifiers Spares

Marine separators are crucial for maintaining the operational efficiency and environmental compliance of a marine vessel. They are designed to separate different substances within fluid stream. These devices are essential for preventing pollution, managing waste and guaranteeing adherence to environmental regulations. In this way, they reduce the environmental impact of a ship and safeguard marine habitats by successfully separating contaminants from wastewater and fuel.

The most common types of separators are:

- Oily-Water Separators
- Fuel Separators
- Solid-Liquid Separators
- Centrifugal Separators

Centrifugal purifiers play a key role in several business sectors and purify liquids from particles or substances of different densities. They play a vital role in offshore oil drilling rigs and land based facilities, as well as in all kind of plants that are responsible for generating the energy.

Example Brands and Models

Alfa Laval:

MAPX: 204/205/207/210/309/310/313
 MAB: 102/103/104/204/205/206/207/209
 MIB, MMB: 203/303/304/305
 MOPX: 205/207/209/210/213/306/308/309/310
 FOPX: 605/607/609/610/611/613/614/616
 WHPX: 405/407/409/410/413/505/507/508/510/513
 MMPX: 303/304/403/404
 PA: 605/610/615/625/635/636
 PU: 605/610/615/625/635/636
 3MFPX307, 7MSPX307
 SA: 811/815/816/820/821/825/826/831/835/836
 SA: 840/841/845/846/850/855/875/876/880/881/886
 SU: 200/300/400/500/600/700/800

Mitsubishi:

SJ 700/SJ 2000/SJ 3000/SJ 4000/SJ 6000/SJ 8000
 SJ 10T/11T/15T/16T/20T/25T/30T/40T/60T
 SJ F 10F/15F/30F/40F/50F/80F/100F
 SJ 10G/20G/30G/50G/60G/70G/100G/120G

Westfalia:

ON: 1016/2016/3046, OTA: 02/07/014, OTB: 02/03/09/18
 OTC: 02/03/04/05, OSA: 05/07/20/35, OSB: 35, WSC: 05/25
 OSD: 02/06/18/35/60, OSC: 04/05/15/25/30/50, OSE: 05/10/20/40/80

Warma:

OB: NEPTUN-0,25, NEPTUN-0,5, NEPTUN-1, NEPTUN-2,5,
 NEPTUN-5, NEPTUN-10



Spare parts for Alfa Laval MAPX207 Separator

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Electrical and Automation

Vespion provides a complete range of electrical and electronic devices, lighting, automation and instrumentation in marine and offshore executions.

Scope of supply includes: batteries, contactors, circuit breakers, relays, transformers, cables, cable glands, reefer container sockets, sounders, lamps, fixtures, bulbs, floodlights, control buttons, pressure and temperature switches, indicators, temperature sensors, level sensors, fuses, panels, telephones, thermometers, transformers, transmitters, level switches, pressure gauges (manometers), microswitches, alarms, PCB, gas detectors and fire detectors.

In addition, we are able to design and assembly electrical automation switchboards.

Automation and control systems are prepared on basis of projects provided by the Customers.

We are able to produce: main switchboards, emergency switchboards, control and automation boards and signalization boards.

Example Brands

ABB, AEG, AMOT,
AQUA SIGNAL, APATOR,
APENA, ASEA,
AUTRONICA, BANCO,
BBC, BELMA, CARLO
GAVAZZI, CLORIUS,
CONTROLMATICA,
DANFOSS, DEIF, DOLD,
DOLMEL, EAO, EATON,
EFA, ELDIS, ELGO,
ELEKTROPARATAJ,
ELHAND, ELMOR,
ELTA, EMA ELESTER,
EMERSON, EUGEN SEITZ,
FACH, FAMOR, FINDER,
FUCHS, GENERAL ELECTRIC,
GESTRA, GLAMOX,
HONEYWELL, INCO,
JOHNSON CONTROLS, KFM,
KLINGER, KLOCKNER
MOELLER, KONGSBERG,
LIMATHERM, LUMEL,
MERA PNEFAL, MERAMONT

MERATRONIK, MERLIN
GERIN, MIKROMA,
MOBREY, NORATEL,
NORCONTROL, NORD,
NORIS TACHO, OLTEN,
OMRON, PHILIPS,
OSRAM, PHOENIX
CONTACT, PLEIGER,
POLAM-REM, PONAR,
PROMET, REFA,
RELECO, RELPOL,
ROCKWELL, SACE, SACI,
SALWICO, SAUTER,
SCHNEIDER ELECTRIC,
SCHMERSAL, SELCO,
SIEMENS, SIKA,
STROMBERG,
TELEMECANIQUE,
TELOS, TRAFAG,
WABCO, WIKA,
WISKA, ZAP



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Various ABB Components

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Electric Motors

Electric Motors are part of a wide range of applications in the marine industry. These include air compressors, ventilators, pumps, winches, hydraulic systems, thrusters and scrubbers. Most often very specialised solutions are required to meet specific operation needs and to reduce environmental impacts. In the maritime and offshore industry, especially on oil tankers, chemical tankers and rigs, flammable gases may be present and to avoid the risk of explosion, motors in explosion-proof design should be used.

Marine motors are usually supplied in special design and have to meet strict documentation requirements. Sometimes this includes also an approval from classification societies, such as: ABS, BV, DNV, RINA or LRS.

Motors in marine execution should have the highest possible salt water resistance and robust corrosion resistance. They shall be produced from the best materials to ensure their longevity, reliability and continuous operation without any interruptions..

Example Brands and Types

Brands:

ABB
AEG
BESEL
BEVI
CANTONI MOTORS
CELMA
HOYER
INDUKTA
LEROY SOMMER
OMEC
SIEMENS
TAMEL
VEM MOTORS
WEG

Types:

BRUSHED
BRUSHLESS
SINGLE PHASE
THREE PHASE
AXIAL
SYNCHRONOUS
INDUCTION (ASYNCHRONOUS)
HYSTERESIS
RELUCTANCE
LOW VOLTAGE
DIRECT CURRENT (SHUNT)
CLOSE COUPLED
EXPLOSION-PROOF



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Hoyer Electric Motors, type: MS90L2 and HMA2 100L

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Hydraulic and Pneumatic

Vespion provides a wide range of different hydraulic and pneumatic components used in marine and offshore industries.

Hydraulics for marine applications are critical to the vessels, because they use fluids to transfer power and energy. They are a part of the following systems: crane and winch operations, door opening and closing, heavy machinery control, steering and propulsion (like waterjets and variable pitch propellers) and braking. We can supply: vane pumps, piston pumps, gear pumps, flow valves, pressure valves, directional control valves, actuators, hydraulic hoses and cylinders.

Marine pneumatic systems are also vital for various shipboard operations. They rely on compressed air to power equipment and control the systems. Scope includes pneumatic control heads, pneumatic actuators, actuated back flushing filters, pneumatical pumps, direction control valves, cylinders, start motors and conditioners.

Example Brands and Models

BELMA: P220, R-24, R-220, RP-24, RP-220
 BOMET: 100-18, DN500 KK02, KK-71-W511, 140-200 A, KK9511309
 BOSCH-REXROTH: 3230200052, R901017027, R417000616
 CLORIUS CONTROL: AVM322K001, ER 2000, V2.05, L1S, L2S, M1F
 DAMCOS: VPI-E, BHA-2 MK2, BHA-4 MK2, MAS2600, DPI-E-68
 DANFOSS: PVG32, PVG100, PVG120, PVSK, PVB, PVBZ, L25C, L30D
 EATON: RF10EE5N1KA02000, NZ10DH5N3KR040KG
 EPOLL: AS 1, AS 3, AS 5, AS 10, AS 15, AS 20, AS 25, AS 35, AS 55
 HYDAC: EDS 3400, EDS 8000, HDA 8000, VM8-C, SBO, SB3
 HYDROMATIK: SKV 40, SKV 50, SK 60
 HYDROSTER: SD1, CJ2, CJW, MS 800, MS 1250, SPV5, SPV8, SPV14
 LUCIFER: 496700C2, U133X5156, 121V5263-495905C
 DENISON: V20/05D1A04, PV6, P14, P7S, T6ED, P24
 NORGREN HERION: 0880220, 2401103.0801.02400, R64G-NNK-RMN
 OLAER: E140-1515-113511, E100-1515-123611
 ORSTA: TGL17-747401, TGL 10859, TGL 370
 PARKER: PGM517, KA10, KA18, PGP030, PGP050, PGP075, F11, P315
 PLEIGER: MOV-3-300-36/2, MOV-3-200-73.6
 PONAR WADOWICE: UZKS 25-12/D, 4WE10-E-62/W230-RNZ4
 SAUER DANFOSS: PV24, PRN 33 + 14 D CO 31, SPV 22
 AMOT: 2 1/2BRCC12007-00-AA, C 1 1/4 CCMCU12001-0-AA
 HAWE HYDRAULIK: SG1 D-AK, NBVP 16-ZD/G 24
 EMERSON: ACP3023BC, ARC3044BC
 SUN HYDRAULICS: CBEA-LAN, CBGA-LHN, CBGGLJN
 OILGEAR: PVWJ-034-A1UV-RSAY-P-1NNNN



Damcos®

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Spare Parts for Sauer Danfoss PV24 Piston Pump

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Filtration Equipment

The filters for marine applications preserve and clean a variety of gases and fluids that are vital to a ship's operation. These filters ensure that the various systems on board marine vessels remain effective and long-lasting. Marine filtration systems are vital to sustaining the efficiency, safety and security of marine vehicles and serve a critical function in maintaining the performance and productivity. By avoiding damage to onboard equipment, marine filters help to make the voyage safe for both the crew and the ship.

The following are some typical filter types seen in marine applications:

- marine engine fuel filters, oil filters, air filters
- water filters, hydraulic filters, coolant filters
- bilge water filters, air conditioning filters

Common uses of marine filters:

- engine protection
- preservation of fuel or air quality
- fluid purification
- cooling system efficiency
- waste management

Example Brands and Models

Oil, Fuel and water filters:

ALFA LAVAL MOATTI: T150, T152, T280, LAM280, LGM280, TL150, TL152, TL280, TT150, TT152, TT280, X280, XL280, XX280, L140, L280, LL140, LL280, F150D, F152, F240D, MFU280, F150, F152DE, F240DE, FM150D, FM152, FM240D, FSMN150, FSMN152, FM150, FM152DE, FM240DE, FF150D, FF152, FF240D, FF150, FF152DE, FF240DE, FGMN, SNC

BOLL & KIRCH: 1.03, 1.05, 1.14, 2.04, 2.05, 2.06, 6.03, 0.04, 6.18.2, 6.18, 6.18.3, 6.21, 6.22, 6.23, 6.24, 6.33, 6.41, 6.48, 6.46, 6.50, 6.60, 6.61, 6.62, 6.64, 6.72, 8.35, 8.36, 8.64, 8.72

WARMA GRUDZIADZ: FO, FP, FO-PA, FP-PA, FL, FL2, FLP2, FL2-PA, FLP2-PA, FL4, FSA, FW

Filters for Marine Devices:

ENGINES: BERGEN DIESEL, CATERPILLAR, CUMMINS, DETROIT, HOLEBY, MAK, MAN, MAN B&W, SULZER, VOLVO PENTA, WARTSILA

COMPRESSORS: ATLAS COPCO, ALUP, BAUER, BOGE, DANFOSS, HYDAC, INGERSOLL, REXROTH, SABROE, STAL, TAMROTOR, YORK

Hydraulic Filter Inserts:

AKO FILTER, BALDWIN, BOSCH-REXROTH, BRUNVOLL, CATERPILLAR, DONALDSON, FACET, FILTREC, FILTRON, FLEETGUARD, HENGST, HYDAC, KNECHT, M-FILTER, MAHLE, MANN+HUMMEL, MITSUBISHI, PARKER, PZL SEDZISZOW, RACOR, ZAMECH



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By-Pass Element 1800-03568 for Alfa Laval Moatti Filter type FM150D

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Propulsion Spare Parts

A marine propulsion system refers to the technology that propels any water-borne craft on the water. All marine propulsion systems work on Newton's third law of motion whereby any force applied by one object to a second object results in an equal reaction force being applied on the first object. In the case of marine propulsion, device applies a force on either the surrounding water or air to create a reaction force on the craft and push it in the required direction.

We supply spare parts for the bow, stern and azimuth thrusters such as blade foot o-rings, shaft seals, top seals and bearings. We are also able to deliver some elements for controllable pitch propellers (CPP) and fixed pitch propellers (FPP).

Furthermore, we can deliver high quality stern tube seals that are produced in European Union. They can be used with all common shaft speeds and vessel drafts and are produced either in in exeuction for traditional oils or in execution for biodegradable oils.

Example Brands and Models

ABB Zamech:

N1,1-150, N1,3-220, N1,6, TT-60, TT-83, CPT 2,0, PH1050/4-R315, J-201, PH 950/4-R280, ST510-S, PH 1350/4 -R355L

Waukesha - Lips:

Mk II, 4 BL, 3AS, Airguard

John Crane Lips:

Mk II, 4 BL, 3AS, Airguard

John Crane Marine - Lips:

Mk II, 4 BL, 3AS, Airguard

Neptun:

UD 1, UD 2

Blohm & Voss:

SC1, SC2

Deep Sea Seals:

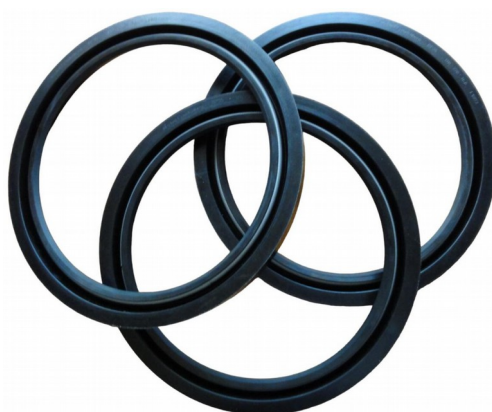
Mk II

Wartsila:

Mk II, 4 BL, 3AS, Airguard



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Spare parts for ABB Zamech Bow Thruster type TT-60

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Oily Water Separators Spare Parts

Marine Oily water separators (OWS) are the devices used onboard ships to remove oil from water. They are commonly used to separate oil from bilge water, so this water can be discharged overboard and the oil retained onboard. This protects the marine environment from pollution. Quality of the waste water must comply with the international standards that are currently 15ppm (parts per million) of oil content before discharged overboard. This allows to maintain a cleaner marine environment, aiding the preservation of marine life throughout the world's oceans and seas.

There are two main types of OWS: Gravity Separation type and Centrifugal Separation type. A gravity OWS uses density difference and the immiscibility of oil and water to separate the two fluids. Oil is lighter (has a lower density) than water and will thus be displaced by the heavier (higher density) water, forcing the oil to rise above the water. A centrifugal OWS uses centrifugal force to separate oil from water. Bilge water is fed into a centrifugal OWS, which rotates at high speed. This causes the heavier phase (water) to be thrown outwards towards the periphery of the bowl, when oil remains closer to the centre of the bowl.

Example Brands and Models

RWO:

SKIT/S DEB – all models, SKIT – all models, AEP – all models

Blohm & Voss (SKF):

TMPB – all models, TC – all models, BV – all models, TSP – all models

Jowa:

3SEP OWS-1, 3SEP OWS-2,5, 3SEP OWS-5, 3SEP OWS-10

Mahle:

MPEB – all models

DVZ:

VC – all models, SKA – all models, FSU – all models, OILCHIEF – all models

Heishin:

HCS-20, HCS-50, HCS-100, HCS-200, HCS-300, HCS-500, HSC-1000

Taiko Kikai:

USC-01, USC-03, USC-04, USC-10, USC-20, USC-50

Sasakura:

SMT-1A, SMT-2A, SMT-3A, SMT-5A, SMT-10A

Georim:

UST-02G, UST-03G, UST-05G, UST-10G, UST-20NG, UST-50NG, UST-100NG
POS-2000, POS-5000, POS-N2, POS-N5, POS-N10, PSO-2000, PSO-5000







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Oil level detectors for Heishin OWS type HSC-300

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Plate Heat Exchangers Spares

Plate Heat Exchangers (PHE) are used in various applications, from general heating and cooling to heat recovery, condensation and evaporation.

They are mainly used on cruise ships, LNG carriers, container ships and special ships for transporting cars. The main working conditions of marine plate heat exchangers on ships include the cooling of the lubricating oil used by the ship's main engine, which is called the lubricating oil cooler. There is also the cooling of the main generator, main engine and auxiliary machinery – called the central coolers.

Plate type heat exchangers are made up from an assembly of identical metal plates pressed together, which are manufactured with number of materials and various combinations depending on the application and the operating environment.

Plates of marine plate heat exchangers have high performance and high heat transfer efficiency. Devices are produced with the compact overall structure, saving the place. They start fast at any time, has strong environmental adaptability and are easy to maintain and disassemble.

Example Brands and Models

GEA:

BT, DW, FA157, FA159, FA161, FP, FT, GBH, GBM, GBS, GBX, GML, GNS, GP, MCN, MPN, SEP, XCR, WP, , N-184, N-40, VT-10, VT-130, VT-1309, VT-20, VT-4, VT-40, VT-40P, VT-402, VT-80, VT-805, N40L, NT50, NT100X, NT150S, NT150L, NT250L, NT250S, NT350M, NT350S

APV:

A055, A085, 1020, 1025, 1050AS, 1070-K, H-12, H-17, HMB, HX, J092, J107, K34, K-55, K-71, N-12, N-35, N-50, R-4, R-5, R50, R-55, SR-1, SR-2, SR-3, SR-6AA, SR-6AG, SR-6GH, SR-6GL, T-4, TR1, TR-9AV, PB1, PB2, PBA2, PBA3, R14, R23

Alfa Laval:

A10, A-10-B, A15, A-15B, A-15-BW, A20, AM20B, A-20-HBM, A-3, A-30-HBM, A-35, A45, AK-20, AM-10-HBM, AM-20-BFM, AM-20-HBM, AX-30-FM, H-10, H-7, M-10-B, M-10-BW, M-10-M, M-15-B, M-15-F, M-20-M, M-3, M30, M30S, M-30-FM, M-6-F, M-6-M, MA-30, MK15, MX25B, P-01, P-02, P-13, P-132, P-14, P-15, P-16, P-17, P-171, P-21, P-22, P25, P-26, P-30, P-31, P-32, P-36, P41, P-45, P-5, P-9, T200, TL10, TL10B

Sondex:

S3, S-4, S-7, S-8, S-15, S-19, S-20, S21, S-30, S-35, S-39, S47, S-50, S-58, S62, S64, S65, S72, S78, S8, S83, S86, S100, S120, S121, SF, SFD13, SFD18, SFD23, SFD35, SFD60, SW-26, SW40, SW54, SW59, SW189

Tranter:

HX, UX, GC, GCD, GF, GX, GXD, HX, UX, GFP, HXD, VT, NT



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Spare parts for Alfa Laval Plate Heat Exchanger type A15

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Equipment produced in Poland

Poland has a long and dynamic history in the Shipbuilding industry. Vespion, with the office in Gdynia, knows it really well.

After the wars, the reviving Polish shipbuilding industry began to create modern general cargo ships, bulk carriers and fishing vessels - designed for Polish and foreign shipowners by local constructors. During Poland's communist era, the national shipbuilding industry was administered by the Industrial Shipbuilding Union and three largest yards - located in Gdańsk, Szczecin and Gdynia were capable to produce more than 30 types of ships.

The ships built in Polish shipyards were often characterized by high quality and were favoured in the world rankings of high prestige. One of the main reason of this situation are the local factories and manufacturers with a long history in the shipbuilding industry and vast experience in production of durable marine equipment.

Example Products and Brands

ACCOMMODATION: BANCO, BOHAMET, FAMOS, LUBMOR, MEBLOR
 AIR CONDITION: ALWO, KLIMOR, NOVENCO, MAWENT
 AUTOMATION / ELECTRICAL SYSTEMS: ABB, RELPOL, ELESTER, REFA
 BOILERS: STOCZNIA GDANSKA
 BOW THRUSTERS / CPP: ABB ZAMECH
 COMPRESSORS: HCP CEGIELSKI, TEPRO, WAN, WUCH DEBICA
 CONDENSERS: PBUCH
 CONTROL BUTTONS, SIGNALING LAMPS, INDICATORS: PROMET
 CONTROL COLUMNS: FAMOR
 CONTROLS / MEASURING EQUIPMENT: ABB, ARMAK, LUMEL
 COOLERS (OIL / WATER): FUO RUMIA
 CRANES: TOWIMOR, FAMA GNIEW, SEZAMOR
 DOORS: LUBMOR
 ELECTRIC GALLEY RANGE: WARMA
 ELECTRIC MOTORS: BESEL, CELMA, ELMOR, INDUKTA, TAMEL
 FILTERS: WARMA, PZL SEDZISZOW
 GENERATORS, VOLTAGE REGULATORS: DOLMEL, DOZAMEL, EFA, NEFA
 HEATERS AND CALORIFIERS: DOE, EUROELEKTRO, WARMA
 LIGHTING: AQUA SIGNAL, BANCO, FAMOR, GLAMOX, POLAM REM, WISKA
 OILY WATER SEPARATORS: WARMA
 PUMPS: HYDROSTER, GZUT, HYDRO-VACUUM, TOFAMA, BIALOGON, WPH
 REVERSE OSMOSIS WATER MAKERS: DOE
 SEWAGE TREATMENT PLANT: WARMA
 TURBOCHARGERS: ABB NAPIER, WSK RZESZOW
 UV STERILIZERS: DOE, EUROELEKTRO



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Gzut Pump type 3PA15

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FUO Rumia Equipment

FUO Rumia Company was founded in year 1945 as a supplier of the equipment for chemical and shipbuilding industry. Throughout the history Company has specialized in the manufacturing of heat exchangers such as charge air coolers and tube and shell devices for marine diesel engines. Furthermore, business area comprised also heat heat exchangers for hydraulic systems, refineries and steel mills. In the beginning of 90's Company started to manufacture steam and water boilers for different types of use.

Final scope of production included the following products: air coolers, water and oil coolers, heaters, condensers, pressure vessels, tube and shell heat exchangers, hot water boilers, steam boilers, economizers and steel structures.

These products have got high efficiency and are made of top quality materials, such as boiler steel, copper, cupronickel, bronze, chrome-nickel steel, high alloy steel and other specialized materials. The type of used material is determined by the working parameters and final application of the device.

Example Models

Coolers:

COMPLETE BRAND NEW DEVICES: FI300, FI350, FI400, FI500, FI600, FI700, FI800, FI900, FI1000, CPO, OZ11, OZ12, OZ13, OZ14, OZ15, OZ16, OZ17, OZ18

SPARE PARTS FOR: FI300, FI350, FI400, FI500, FI600, FI700, FI800, FI900, FI1000, CPO, OZ11, OZ12, OZ13, OZ14, OZ15, OZ16, OZ17, OZ18

Heaters:

COMPLETE BRAND NEW DEVICES: P10, P20, P30, P40, P50, P60, P80, P90, P100, P110, PU10, PU20, PU30, PU40, PU50, PU60, PU80, PU90, PU100, PU110, PWM, PWS, PZ

SPARE PARTS FOR: P10, P20, P30, P40, P50, P60, P80, P90, P100, P110, PU10, PU20, PU30, PU40, PU50, PU60, PU80, PU90, PU100, PU110, PWM, PWS, PZ

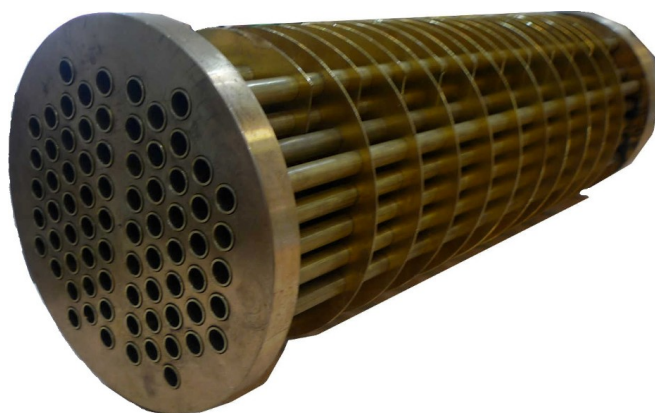
Condensers:

COMPLETE BRAND NEW DEVICES: SN 1, SN 1,6, SN 2,5, SN4, SN10, SN16, F3,4, F6, F7, F8, F12,5

SPARE PARTS FOR: SN 1, SN 1,6, SN 2,5, SN4, SN10, SN16, F3,4, F6, F7, F8, F12,5



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Pipe Insert for Condenser type: SN4

your daily marine supplier



Valves

Marine valves are essential components of a vessel's infrastructure, as they play a critical role in managing the pressure, rate of flow, and path of liquids circulating through the ship's pipelines. They help to regulate and control the flow of fluids, gasses, vapors and slurries or semi-liquid mixtures throughout a vessel's systems. Without this regulation, it would be impossible to ensure the proper performance of onboard operation and keep the vessel to run efficiently and safely.

We supply a wide range of valves, fittings, pipe couplings and flanges in various material versions. They could be offered according to DIN and JIS standards and are very often available in short delivery time.

We are aware of the marine environment specification and pay a high attention to corrosion resistance, ensuring a long life service of the proposed models.

Many products are available with both material and class certificate.

Example Brands and Types

Brands:

ARMAK
BEFA
INTER BEFA
BELMA
BOMET
CLORIUS
EBRO
GLUCHOLAZY
HERION
HOERBIGER
HUTA MALAPANEW
HYDAC
HYDRAL
JAFAR
LUCIFER
NORGREN
PARKER
PONAR
REXROTH
SAMSON
STALKO
ZETKAMA
GESTRA
ARI
DANFOSS
SPIRAX SARCO
JOUKA
EMERSON

Types:

GLOBE VALVES
GATE VALVES
BALL VALVES
BUTTERFLY VALVES
CHECK VALVES
NEEDLE VALVES
STORM VALVES
QUICK CLOSING VALVES
SELF CLOSING VALVES
DIAPHRAGM VALVES
STRAINERS
EJECTORS
CONTROL VALVES
REDUCING VALVES
STEAM TRAPS
RELIEF VALVES
SAFETY VALVES
NON-RETURN VALVES
HYDRAULIC VALVES
PNEUMATIC VALVES
BALLAST VALVES
FLAP VALVES
SOLENOID VALVES
ANGLE VALVES
AIR VENTS
PINCH VALVES
PISTON VALVES
FIRE HYDRANT VALVES

HYDAC



PONAR
wadowice

LUCIFER

BOSCH
rexroth
A Bosch Company

Parker

EMERSON

HOERBIGER

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Danfoss Solenoid Valves

your daily marine supplier



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Anodes

Cathodic protection is the most effective method of fighting against corrosion of industrial metal and ferroconcrete constructions, that come in touch with soil, natural waters and which conduct electricity. This technology is applied, among others, for wharves, piers, docks, vessels, gas pipelines, heat pipelines, metal tanks, sewage treatment plant elements, chemical apparatus and heat exchangers. Cathodic protection consists in change in the structure potential by creating a galvanic cell, that is attaching a galvanic anode or by applying an external source of direct current and an auxiliary anode.

Our offer includes: aluminium hull anodes, zinc hull anodes, aluminium tank anodes, zinc tank anodes and offshore anodes. Zinc anodes offered by us are made of alloys which are in accordance with requirements of the following standards: US Mil - Spec 18001, PN-86/E-05030/05, and DNV RP B401. They have high efficiency of up to 95% and high consumption factor. Aluminium anodes are made using the highest purity primary aluminium and includes zinc and indium. The impurities level allows to meet the requirements for the following standards: GL-2003, Norsok Standard M-503 and PN-86/05030/05.

Technical Specification

ALUMINIUM ANODES ALLOY A2 (AlZnIn)

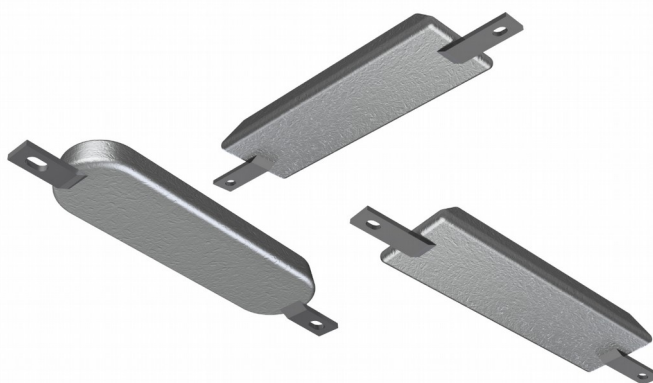
Alloying elements	Alloying elements [%]	Maximum impurities [%]
Zinc (Zn)	3,00 – 5,50	Fe – 0,09
Indium (In)	0,016 – 0,040	Cu – 0,005
Aluminium (Al)	balance	Si – 0,10

ALUMINIUM ANODES ALLOYS A3 (AlZnSiIn)

Alloying elements	Alloying elements [%]	Maximum impurities [%]
Zinc (Zn)	4,75 – 5,75	Fe – 0,06
Indium (In)	0,016 – 0,020	Cu – 0,003
Silicon (Si)	0,08 – 0,12	
Aluminium (Al)	balance	

Z1 (ZnAlCd)

Alloying elements	Alloying elements [%]	Maximum impurities [%]
Aluminium (Al)	0,10 – 0,50	Fe – 0,005
Cadmium (Cd)	0,025 – 0,07	Pb – 0,006
Zinc (Zn)	balance	Cu – 0,005



Zinc Anodes

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see more at...

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