



HMAS KANIMBLA – PUMP IN OPERATION ON FLIGHT DECK

# FSP36 FIRE AND SALVAGE PUMP

## PRODUCT INFORMATION

A fire on board a ship, particularly a ship at sea, is a serious threat to life and property. Because an onboard fire is capable of disrupting the ship's fire fighting, pumping, cooling and electrical systems, there exists a need for a self-powered pump which is adapt to draw water from the sea, from about 7 metres below, to put out the fire.

The requirement also exists for such pumps which are portable in the sense that they may be moved from place to place aboard the ship. Accordingly, such pumps must be compact and light weight. Pumps may be powered by petrol engines but diesel powered pumps comply with various maritime and naval regulations. Diesel motors are generally bulky and heavy. Accordingly, these requirements for power, compactness, weight, reliability in marine environments and versatility have been achieved with the FSP36 Fire Fighting and Salvage Pump

## FEATURES

- \*Exhaust priming up to 7 metres
- \*Service access panel
- \*Full marine diesel engine and frame
- \*Anti-vibration skids
- \*Lifting handle for through hatch ease
- \*Top mounted lifting points
- \*Bottom mounted lifting point (down ladders)
- \*Flushing connection on suction cover
- \*Engine protection shut down system
- \*Full instrumentation, complete with operating instructions
- \*Quick release fuel tank fittings



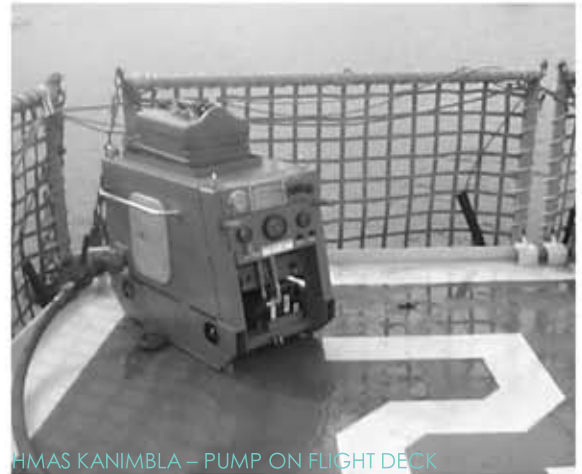
# FSP36 FIRE AND SALVAGE PUMP

The FSP36 fully complies with all military specifications introduced specifically for Fire Defence and Safety. The FSP36 has successfully passed stringent Military specification tests carried out by Australian Defence Science Technology Organisation (DSTO) and the Royal Australian Navy. The FSP36 has successfully completed final tests before being certified 'Germanischer Lloyd Certification' (GL) for the Anzac Class Frigates. The engine is a water cooled marine grade diesel engine, which for a portable pump is to our knowledge a world first. Being water cooled the FSP36 does not have the dangers of overheating as in an air cooled engine.

## APPLICATION

The FSP36 provides the following application to ships systems:

- \*Boost ships fire main system in the event of pump failure or ruptured fire main system
- \*Back up cooling water supply for refrigeration, air conditioning, guided missile computer and radar systems
- \*Armourment cooling and flood systems
- \*General fire fighting and boundary cooling
- \*Damage control by pumping of compartments and voids of damaged vessels, pumping from compartment to void to maintain ships stability, connecting to bilge education



## PUMP

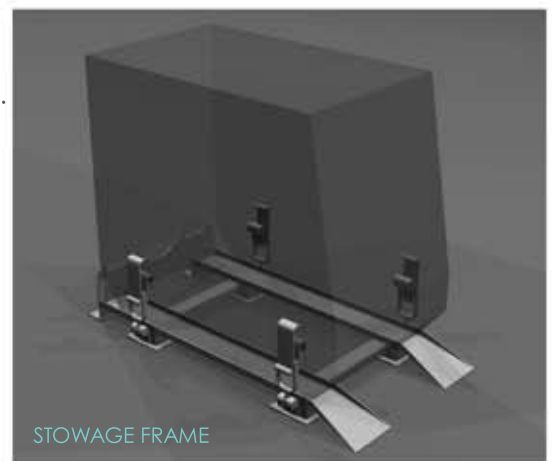
The pump is a dual stage centrifugal pump, which meets all Military requirements and is approved by the DSTO. 3 cylinder water cooled engine directly coupled through a spline to an 'L' drive ratio gear box. Output 720 litres per minute at a 7 metre suction lift, delivering a discharge pressure through two fire nozzles of 1000KPA. Where less suction lift is required, a higher delivery volume and output pressure is achieved. Suction is through a 90mm Storz coupling and hose. Blank cap is also fitted with a fresh water flushing connection, which can also be used for maintenance without the connecting of suction hoses whilst ship is underway. Discharge fitting is a 50mm Storz fitting connected to a 50mm stainless steel ball valve and blank cap.

The FSP36 Fire Pump can be fitted with any size suction and discharge fitting upon request. All pump components such as suction and discharge fittings are bronze. The pump shaft is constructed of monel metal. A liquid filled anti-vibration combination vacuum pressure gauge. Also fitted as standard are an oil pressure gauge, water temperature gauges and tachometer. All gauges are mounted on the control panel for easy viewing by the operator and have an automatic shut down protection system.

## PRIMING SYSTEM AND ENGINE

An exhaust primmer capable of priming through 90mm suction at a 7 metre lift in 35-45 seconds. A well proven Yanmar 4 stroke diesel, water cooled engine has been selected to power the FSP36.

- Type: 4-cycle, water cooled, vertical crankshaft diesel engine
- Manufacturer: Yanmar
- Number of cylinders: Three (3)
- Power (kw) at maximum continuous rating: 26.5kw
- RPM: 4500
- Fuel oil to be used: diesel fuel or A1 jet
- Lube oil to be used: SAE 15W40
- Starting method: Electrical and Manual Recoil Starter (optional)



For more information, please contact Britton Maritime on the below