



KPM Marine D.E. Ltd.

Safety critical Design and Engineering for the Marine industry

Innovating Safety at Sea

KPM 40-05 Endurance pump

Direct replacement for Onan G1006

The KPM 40-50 is specified by customers that operate under high wear or difficult conditions, and are continuously replacing their standard pump.

- Exceeds SOLAS run dry
- Replaceable/Repairable chamber for high wear
- No impeller pullers required
- Low horse power consumption
- Increased pump life.
- Increased Impeller Life.
- Increased Run dry capability.
- Reduced wear in sandy water.
- Reduced spares cost and save £££'s.
- Eliminate winter stick.
- Improved long term Prime at greater height for high mounted Gen Sets.



Direct replacement

Performance

Pump rate at idle 10-13 USG at 750-800 RPM

Pump rate at WOT: 42 US gallons at 3500rpm

Run dry capability (run at 1200 rpm):

5 mins wet 5 mins dry cycled with no damage (test stopped)

10 mins wet 5 mins dry cycled with no damage (test stopped)

15 mins wet 5 mins dry cycled with no damage (test stopped)

3 hours at 1200 rpm : impeller wear but no damage

Grit capability: 30% p80 grit, 70% water run for 24 hours at 1200 rpm with no damage to impeller.

Time to prime: 7 seconds to full flow at 700 rpm negative head of 12 ft though 24 ft pf pipe with 8 litre head at 8 ft

Minimum prime speed: 180 rpm

Max operating temperature: 100 degrees C

Winterstick: No problem encountered

HP requirement: 0.12 kW at 900 RPM ,

Specification.

•**Weight:** 2.5 kg

•**Impeller:** standard neoprene for run dry capability with flat drive .Nitrile will give limited run dry of 5.48 mins

•**Max flow rate** 42 gal/min at 3500 rpm

•**Connectors:** fittings supplied for direct fit to Onan generator

•**Bearings:** 2 off stainless steel sealed bearings max speed of 9,500 rpm with a 22300 Newton dynamic load capability

•**Shaft Seals:** 2 off double lip seals with internal stainless cage

•**Seals:** all seals are die cut 2mm PTFE

•**Speed rating :** 9,500 rpm

•**Shaft:** 304 passivated stainless steel

•**Threads:** All threads are cold rolled for strength for A2 stainless fasteners

•**Body:** Solid billet machined from 7075 t6 aluminum and hard anodized to 50 microns and silicon impregnated

Reduced Ownership Costs

KPM pumps have been designed to ensure maximum economic value to You The Customer . Below are some of the benefits experienced by our customers.

1. For customers with heavy wear conditions caused by sand the pump chamber and associated parts can be fully replaced rather than purchasing a new pump. Customers can opt to buy a new chamber or have the existing chamber refurbished. Either way the pump can be brought back to new specification for £143.50 rather spending £299 . For some customers renders a saving £987.5 over a 5 year period.
2. Pumps in abrasive waters tend to wear on one side and causes loss of prime and performance. The KPM pump chamber can be rotated which will prolong the pump life by 75% above competitors offerings.
3. In a severe run dry situation the impeller will survive with the TIBS System only needing to be replaced saving the cost of a new impeller.
4. The pump will require less maintenance over existing products on the market.
5. Complete spare pumps are not required by the customer. Instead only the chamber assembly is required saving £308 over holding complete pumps. This reduces inventory holding and due to assembly speed reduces down time.
6. KPM pumps have mounting positions to mount diagnostic sensors which will inform the user when the pump is running dry. This is the first line of defence for your pump and engine and aids preventative maintenance.

Spares and refurbishment costs (please contact us for dealer pricing)

Pump	KPM100-A	£299
Main chamber	KPM100-2	£87
TIBS (wear plates)	KPM100-4	£27.50
Impeller	KPM100-5	£29.00
TIBS housing plates (pair)	KPM100-7	£20.00



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