

# FIVA, ELFI & ELVA overhaul services

MAN PrimeServ

**MAN PrimeServ Qatar reconditions, tests and recalibrates multiway valves (FIVA, ELFI & ELVA) to their original design and quality in its state-of-the-art workshop.**

**MAN PrimeServ Qatar is the appointed service provider for Curtiss-Wright multiway valves. Reconditioned MAN and Curtiss-Wright multiway valves (FIFA I, FIVA II, ELFI & ELVA) are available in prime quality.**

The performance of multiway valves including FIVA (Fuel Injection Valve Actuation) ELFI (Electronic valve Fuel Injection) and ELVA (Electronic Valve Actuation) play an essential key role in every ME engine performance, durability and operational efficiency. Multiway valves are especially designed for ME engines and are high precision units that control the fuel injection and / or exhaust valve opening.

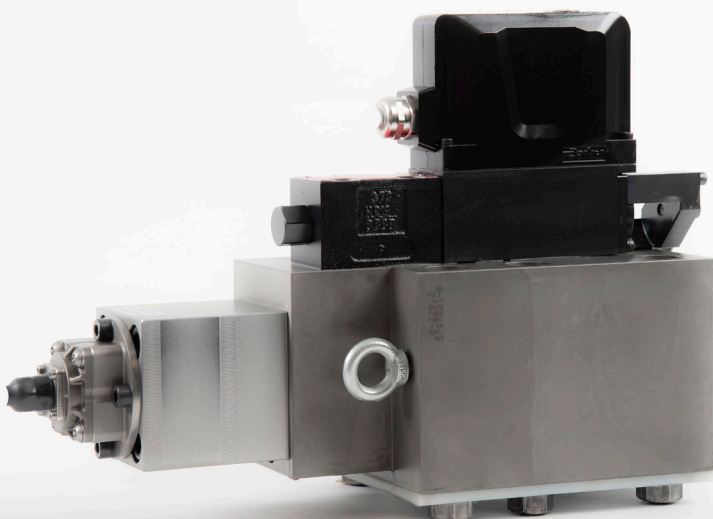
Worn, leaking and improperly calibrated multiway valves may result in engine start up difficulties and reduction of engine efficiency and power during operation. They cause complications such as alarm activation by for instance higher exhaust temperature which lead to the necessity of troubleshooting and unexpected downtime.

Based on service experience, multiway valve will be due for overhaul after 32,000 running hours, or equivalently five years in service to ensure efficiency, reliability and safety at sea. With planned maintenance in mind, multiway valve overhaul can be carried out during dock stay together with hydraulic power supply pump overhaul.

## **MAN applicable engine types**

MAN B&W two-stroke marine diesel engines of the following types.

- ME-GI
- ME/ME-C
- ME-B
- ME-S
- ME-GI-S



# Reconditioned multiway valves

Save 25-40% on prime quality

Our expert technicians and modern equipment provide reliability and peace of mind to the full extent.



## Benefits

- Reconditioned units are approximately 20% less expensive than new units.
- An additional 20% of the price is reimbursed after submission of your defective unit to PrimeServ Qatar if the available exchange option is chosen.
- Quality and durability of reconditioned units are just as good as brand new units.
- Reconditioned multiway valves bear the same warranty as brand new units.
- Purchasing reconditioned units protects environment by reducing pollution and use of resources including energy, materials and workforce.

## Scope of services

- Cleaning
- Dismantling
- Visual inspection
- Exchange of all relevant parts (new seal kits are used)
- Conducting a full-scale test
- Simulating the performance using our modern multiway valve test rig
- Issuing a test certificate followed by the test report

## Multiway valves exchange program

**2MLFRNVRSLQ** Qatar offers exchange program for your existing multiway valves, in addition to availability of reconditioned units for purchase.

Contact PrimeServ Qatar for information on how to purchase reconditioned units and how to send us your units which are due for overhaul

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