

PROVIDING MAIN ENGINE'S PNEUMATIC REMOTE-CONTROL SYSTEM (MANOUEVRING SYSTEM) ON EXCHANGE BASIS

General:

Main engine's pneumatic Remote-Control System (RCS) overhaul process consists of overhauling all pneumatic valves/cylinders that control main engine operations - start, stop, reversing ahead and astern, speed setting telegraph, from bridge, ECR and EMCY stand.

Overhauling of pneumatic remote-control system on auxiliary engines can be done as well.

- (1) Engine manufacturers recommend overhauling of pneumatic components every two years.
- (2) It is also recommended to regularly check functioning of the system - air bottles should be drained every day, filters cleaned regularly, automatic water traps emptied, and compressors maintained in order to minimize the content of the oil and water in the system.

When placing order for RCS overhaul, the client should provide - engine type, number of cylinders, RCS schematic diagram (drawing) and list of valves. If some information is not available, PBM shall advise the client about possible solution, based on experience.

Providing RCS on Exchange Basis has several advantages – significantly reduced overhauling time, avoiding usual problems onboard due to obsolete RCS diagrams, mistaken valve/cylinder codes, or valves/cylinders damaged (f.e. corroded or badly worn out) beyond repair.

Providing RCS on Exchange Basis consists of the following steps:

- 1) upon accepting PBM's offer, client places the Purchase Order
- 2) PBM packs and sends required valves/cylinders to the vessel. Packing costs are included in the service price. Transportation costs are not included in the service price.
- 3) when the vessel is ready for the service provisioning, PBM's service engineers join the vessel to replace used valves and test the RCS system, including sea trial if needed. Sea trial is not included in the service price.
- 4) client shall send used (replaced) valves to PBM's workshop address, as instructed by PBM, within 30 days after provisioning of the service
- 5) used valves shall be overhauled in PBM workshop
- 6) in case of valves whose condition is beyond repair, the situation shall be presented to the client and valves charged in addition.

PBM provides 6 months warranty on work done and repair kits installed.