

Refurbishing of injection valves

FOR DUAL-FUEL ENGINES



Wärtsilä refurbishing solutions offer a new dimension in the reduction of maintenance costs. Globally available exchange parts and locally offered refurbishing services reduce the operation expenses of the installations.



For Wärtsilä 32DF, 34DF and 50DF engines, when the lifetime of the pilot side of the dual-fuel injection valve is reached, the valve is to be replaced. As an option to reduce maintenance expenses without compromising quality, Wärtsilä offers refurbishing of the valve.

Two options are available: refurbishing of the customer's own components or the use of exchange parts.

OWN COMPONENT

The customer can send his used components to a Wärtsilä workshop for refurbishing and receive the same components back. The local Wärtsilä representative is the contact person and supports the logistic process. The Wärtsilä refurbishing services are available in various authorized workshops in all regions of the world. In comparison to the global

list price of a new part, the service costs are dramatically lower, without compromising the quality and lifetime of the components.

EXCHANGE PART

The exchange system means refurbished components are available ex stock and sold at a reduced cost to the customer compared to the global list price of a new component. This is achieved by keeping a pool of refurbished components available at Wärtsilä's warehouses. These parts can be supplied before the used components are sent back for refurbishing, meaning that the customer benefits from the price advantages of a refurbished component without the associated lead times.

In both cases, the same OEM warranty applies as for a new component.

The refurbishing of the valve includes:

- Replacing all wear parts and critical components
- Upgrading of the pilot injection solenoid and the injection valve cable to new versions
- Verifying functionality in a test bench
- Marking of the injection valve for follow up

The injection valve cannot be refurbished if:

- The nozzle holder body is damaged or heavily rusted
- The fuel intake is damaged
- The sealing surface is damaged or has been machined
- The injection valve has already been refurbished 3 times

The refurbishing solutions of the injection valve is available for **Wärtsilä 32DF** (dual-fuel), **Wärtsilä 34DF** (dual-fuel & tri-fuel) and **Wärtsilä 50DF** (dual-fuel & tri-fuel).