



Electric FD fan actuator upgrade kit

Enhanced forced-draught fan control for Alfa Laval Aalborg KBSD and KBSA burners

Alfa Laval works closely with customers to ensure that existing products are updated with new and reliable technologies that meet the demands of today's fleet. This kit is a reliability-ensuring upgrade for the forced-draught (FD) fan of Alfa Laval Aalborg KBSD and KBSA burners, resulting in a highly accurate and maintenance-free damper positioning system. The kit provides everything needed to replace the original pneumatically operated fan actuator with an electrically operated actuator.

Reliable fan damper positioning

The fan actuator controls the dampers that match the FD fan airflow to combustion needs. Using an electric actuator ensures a steady and reliable airflow to the burner, without fluctuations that can lead to smoke, low efficiency and unintended flame failures.

Unlike a pneumatic actuator, an electric actuator is not affected by moisture contamination in the control air. Moreover, it has a feedback system based on internal positioning, rather than a mechanical feedback system. This makes the damper positioning highly accurate. Accuracy is further improved by the actuator's modulating speed, which minimizes airflow fluctuations during small adjustments.

Benefits of upgrading

- Eliminated maintenance
- Increased reliability
- Extremely accurate FD fan damper positioning
- Natural draught (ventilation) due to fail-safe position in the event of blackout
- No faults resulting from moisture-contaminated control air
- Easy installation
- No calibration

Burner compatibility

The electric FD fan actuator upgrade kit is applicable to all Alfa Laval Aalborg KBSA and KBSD burners delivered up to 2015. As of late 2015, electric actuators for the FD fans are part of the common platform for new deliveries of these burners.



Performing the upgrade

The upgrade is relatively easy to perform with basic electrical training. It involves the installation of a small control cabinet close to the FD fan and a power cable connecting it to the boiler's local control cabinet. However, the assistance of an Alfa Laval Service Engineer during the installation is recommended whenever possible.

Upgrade kit contents

- Electric actuator with cables
- Installation brackets
- Control cabinet
- Operation manual and spare part list

Related products

Alfa Laval offers additional kits for converting from pneumatic to electric control, such as a fuel oil valve upgrade kit for KBSD burners.

Alfa Laval reserves the right to change specifications without prior notification.

How to contact Alfa Laval

Up-to-date Alfa Laval contact details for all countries are always available on our website at www.alfalaval.com