



Alfa Laval

Valve upgrade

For PureBallast

Improve flow stability and reduce operating cost

Optimize the performance and lifetime of your PureBallast system by improving the valves that control the system flow. Our valve upgrade package offers options that safeguard efficient filtration and increase your system's robustness. By protecting key components, a stable flow through your system minimizes the risk of downtime.

Our service helps you with:

- Increased filtration performance
- Operation at higher flow rates
- Reduced operating costs
- Minimized downtime

How it works

Stable operating conditions are essential to get high performance from your PureBallast system. Upgrading critical valves ensures sufficient system pressure at all times, and it enables you to operate at higher flow rates.

- **Control valve with electric actuator (V201-8)**
Control valve V201-8 is installed after the UV reactor, where it secures correct backflushing pressure. Switching to electric valve actuation provides more torque, ensuring stable operation at higher flow rates and better filtration performance. We recommend replacing the entire valve instead of just the pneumatic actuator.
- **Stronger air actuator for control valve (A500)**
Systems with 3000 m³/h capacity also have an A500 control valve. This valve's robustness is increased by replacing the existing air actuator with a stronger one. The stronger actuator provides more torque, ensuring stable operation at higher flow rates and better filtration performance.
- **Inlet flow control valve (FC201-1) and/or external feed control**
This additional valve is installed before your PureBallast system to optimize the inlet flow and increase system performance. It reduces the risk of water hammering and resulting damage.
- **Valves with vulcanized design**
Today's PureBallast valves have vulcanized material that reduces the risk of sticking. Existing valves can be switched out for new valves with the vulcanized design.

The first step is to identify the details of your PureBallast system and determine which upgrade options apply to it. Once the right options have been selected, we send you the appropriate components. You can install the upgrade yourself, or you can choose to leave it to us.

How the service can be delivered

- 
On site
- 
Remotely
- 
At service centres
- 
On board
- 
In dry dock



Case story

Electric valve actuation has improved both flow and costs

A RoRo vessel in the Nordic region was experiencing pressure peaks within its PureBallast system. Due to sudden movements of the system's valve discs, the flow was turbulent – especially during backflushing.

To correct these issues and ensure stable operation going forward, the customer chose to upgrade the pneumatically actuated V201-8 control valve. The entire valve was switched out, replacing it with a new valve body and electric actuator.

Since upgrading to the electrically actuated valve, the customer has experienced smoother flow conditions without pressure peaks. The actuator's increased torque keeps the valve in its correct position, which ensures sufficient backflush flow and optimizes system performance. Because the system's components are now more protected, operating costs and the risk of downtime have both decreased.

24/7 Service & Support

With service centres, field service engineers and spare parts distribution worldwide, our Alfa Laval Marine Service network is always on the job for you. When you contact our 24/7 Service & Support, our service experts coordinate everything to solve your need – across oceans, continents and time zones.



Other services for PureBallast

Compliance Service Package

Filter upgrade

PureBallast Connect

Contact your local Alfa Laval office

www.alfalaval.com/contact-us

