

# Sustainable Aviation Fuel



**FISHER™**

**Airlines are looking to reduce carbon emissions with Sustainable Aviation Fuels (SAF). Fisher™ control valves facilitate efficient pretreatment and hydrotreating processes that are key in the production of reduced carbon fuel.**

## Challenges

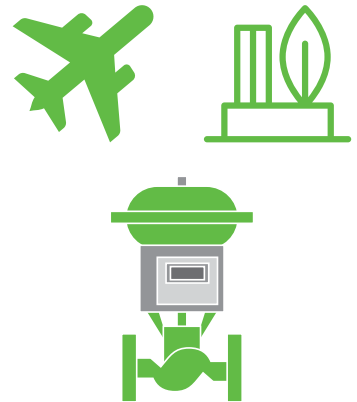
### Corrosive Pretreatment:

Bleaching and neutralization sections require special alloys for control valves due to the corrosive or acidic nature of the bio-based feedstock used.

Gumming operations involve more adhesive fluids which can cause internal components sticking.

### Reactor:

Safety is crucial in the reactor due to high-pressured hydrogen applications and the increased severity and volume of high-pressure hydrogen versus traditional petroleum-based applications. Accurate control is required to extend catalyst life based on acidity in feedstock.



*Emerson's solutions make it easier for operators to safely meet demand while lowering operating costs, reducing unplanned slowdowns and shutdowns, and adapting to new clean fuels regulations.*

  
**EMERSON™**

# Emerson Solutions - Enhance Safety, Efficiency, and Reliability in SAF applications

In today's changing energy market, refiners are under increasing pressure to implement operational flexibility. Emerson's solutions make it easier for operators to safely meet demand while lowering operating costs, reduce unplanned slowdowns and shutdowns, and adapt to new clean fuels regulations.



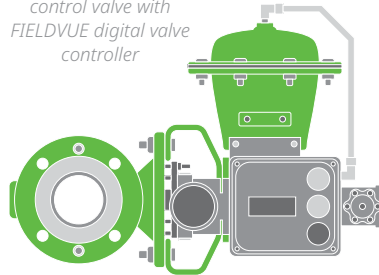
**Fisher FIELDVUE™ instruments offer state-of-the-art diagnostic tools, providing a window into the health of valve assembly assets.**

Emerson's hydrotreating solutions provide the tight control, accurate measurements, and real-time compositional data needed to maximize the yield of higher value products while reducing the typical operator intervention needed to keep the process running well.

**Achieve proper flow control adhesive fluids through the gum separation process with a reliable, low-maintenance control valve designed to maintain unrestricted flow passages.**

Specially selected trim materials and body coatings in the Fisher Vee-Ball™ control valve help avoid build up and control valve sticking that could lead to process shutdown.

*Fisher Vee-Ball V150 control valve with FIELDVUE digital valve controller*



**20+**  
projects since 2020...

**75%**  
of total market

**High-performance flow control solutions**

Enhanced designs require innovative solutions. Emerson provides dependable flow control technology for stable and reliable operation in hydrogen applications. Emerson offers a wide breadth of hydrogen-approved solutions from rotary to globe valve technologies.

## Learn More

- [Control Valves page](#)
- [Biofuels page](#)



*Fisher GX control valve with FIELDVUE digital valve controller*



*Fisher V500 eccentric plug control valve with FIELDVUE digital valve controller*



*Fisher easy-e™ control valve with FIELDVUE digital valve controller*



*FisherNotchFlo™ DST control valve*