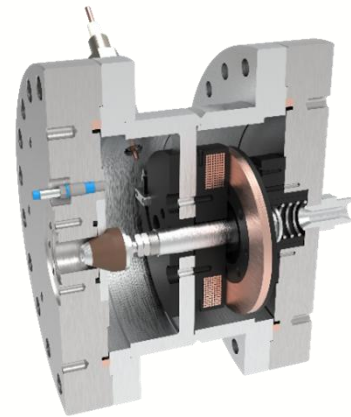


EDDY DRIVEN VALVE

ULTRA-FAST, HIGH-PRESSURE, EDDY CURRENT DRIVEN GAS VALVE

- ✓ **1–2 MS OPENING TIME**
- ✓ **1–20 BAR·L GAS OUTPUT, HIGH REPRODUCIBILITY**
- ✓ **UP TO 150 BAR OPERATING PRESSURE**
- ✓ **1000 CM³ INTERNAL RESERVOIR VOLUME.**
- ✓ **ATEX COMPATIBLE (H₂, D₂, HE, N₂, AR, NE, ETC.)**
- ✓ **OPERABILITY IN HIGH EXTERNAL MAGNETIC FIELD**



THE EDDY DRIVEN VALVE (EDV) IS A HIGH-SPEED, HIGH-PRESSURE GAS VALVE BUILT ON AN EDDY-CURRENT ELECTROMAGNETIC ACTUATOR. IT DELIVERS MILLISECOND-SCALE OPENING, STABLE GAS OUTPUT, AND DURABLE OPERATION FOR FUSION AND ADVANCED LABORATORY SYSTEMS.

KEY BENEFITS

- **1–2 ms opening** even at high internal pressure
- **150 bar operating pressure** with a **1000 cm³** reservoir
- **1–20 normal bar·L gas delivery** with ~0.1 bar·L reproducibility
- **Compatible with H₂, D₂, He, N₂, Ar, Ne and gas mixtures**
- **Ultra-high vacuum compatible** – low leak rate
- **Minor external-field sensitivity** - fully compensable
- **Controlled mechanical closure**, designed for long-term durability
- Validated through **>1000 repeatable cycles in high magnetic field (275 mT)**

WHY CHOOSE EDDY DRIVEN VALVE?

The EDV provides a unique combination of:

- **extreme speed,**
- **high-pressure capability,**
- **excellent repeatability,**
- **robust construction,**
- **and validated performance in fusion applications (TRL 8).**

A proven, fusion-grade solution for applications requiring reliable, high-speed gas delivery.

WHERE IT EXCELS

- **High-speed gas delivery** where timing and pulse sharpness matter
- **Fusion R&D environments**, including SPI/MGI-related testbeds
- **Laboratory fast-puff systems** requiring reliable ms-scale actuation
- **Environments with high magnetic fields**, where predictable compensation is acceptable
- **Systems requiring consistent, repeatable gas output** over long campaigns

EDDY DRIVEN VALVE — WHEN MILLISECONDS MATTER, RELIABILITY DECIDES.