PURGE AND DRAIN **VALVE**

ANODE AND **CATHODE** SIDE

PURGE AND DRAIN VALVE

Rheinmetall's 2/2-way solenoid valve is designed for efficient discharge or recirculation of gases and liquids, making it ideal for applications involving hydrogen, nitrogen, and water in both liquid and gaseous states.

An optional de-frost capability is available, featuring a separate heating circuit that can be accessed through a four-pin connector.

Additionally, the valve offers customizable interfaces for connectors, mounting options, and cartridge configurations, ensuring adaptability to specific requirements.

BENEFITS

- Material resistance against typical media of the fuel-cell (Product water, Hydrogen)
- High durability (>15 Mio. actuation cycles)
- Typical defrosting time 45sec from -40°C
- Low built size, weight and cost

TECHNICAL DATA

Nominal voltage	12/24V
Current consumption	0.69 / 0.35A (@RT)
Temperature range	-30 °C ... +100 °C
Pressure range	up to 4.0 bar

EXAMPLE

Flow at Δp=25kPa	
Nitrogen	0.024 mol/sec
Water	33 g/sec
Hydrogen	0.056 mol/sec

RHEINMETALL POWER SYSTEMS DIVISION

Within Rheinmetall the Power Systems Division is a system provider for high-quality and innovative (mobility) solutions, control technologies and digital applications for the automotive and energy industries, among others.

With its Business Units and Business Areas, the Division stands for outstanding expertise in the following areas: air management, thermal management, e-mobility and digitalization, hydrogen technology, metallic plain bearings, composite materials and lightweight construction. The Power Systems Division also represents Rheinmetall's global aftermarket activities through the Trade Business Unit.

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