

CATHODE AIR CONTROL VALVE



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Rheinmetall's innovative solution facilitates precise air and pressure control within fuel cell intake systems, while also allowing for efficient bypass of the humidifier and securing the cathode system. Designed with high resistance to hydrogen and de-ionized water, it is available in various bore diameters, including 38, 40, 48, 60, and 80 mm.

Engineered specifically for use with de-ionized water and hydrogen, the product offers a fail-safe option, configurable as unpowered closed or open. A smart version operates on 12V with an optional CAN-Bus for 12/24V systems, while a non-smart actuator is available in both 12V and 24V versions.

With high excess torque to break through ice, this robust design ensures reliability in demanding conditions.

TECHNICAL DATA

Operating voltage	12/24 V
Temperature range	-40 °C ... +130 °C
Nominal/excess torque	>0.5 Nm / > 2 Nm
Pressure	20 – 350 kPa (abs)
Response time	<120 ms

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 after-market activities through the Trade Business Unit.

CONTACT

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