

## PRESS RELEASE

### Optimum back pressure for exhaust gas recirculation

- **Reduced nitrogen oxide emissions through new exhaust valve**
- **Allows flexible control of the exhaust back pressure**
- **Further element for compliance with upcoming emission limit values**

*Esslingen (Germany), 20 July 2021* – **Reducing nitrogen oxide emissions is an important factor for meeting future emission standards worldwide. Purem by Eberspächer contributes to this with its new emission valve EVG2. Compared to its predecessor, it is about 30 percent lighter and resistant to higher exhaust gas temperatures.**

To prevent increased nitrogen oxide generation in the internal combustion engine, the temperatures in the combustion chamber must not be too high. If exhaust gas is recirculated with the optimal back pressure, the combustion temperatures drop. The **Emission Valve Generation 2 (EVG2)** from Purem by Eberspächer ensures this effect to reduce emissions.

#### **Reliable function**

Weighing only 900 grams and with a temperature resistance of up to 650 degrees Celsius, the **Emission Valve Generation 2 (EVG2)** is versatile. Compared to its predecessor, the emission valve is much smaller and requires little installation space. It is designed for common connection diameters and a maximum actuated back pressure of 600 mbar. Compared to its predecessor, this corresponds to a doubling of the possible back pressure in the exhaust system, allowing it to be used in different engine classes. In addition, it has a fail-safe functionality. This ensures the reliable functioning of the

emission valve even in the event of fluctuations or complete failure of the on-board electrical system.

### **Smart and continuously adjustable**

The integrated actuator in the EVG2 and the connector can be optimally integrated into the existing installation space. For this purpose, the actuator position can be rotated and the position of the connector can be selected flexibly according to customer requirements. In addition, the emission valve can be installed in both flow directions. The actuator is available as a non-smart or smart version with its own control intelligence. In both versions, it works at temperatures from -40 to +140 degrees Celsius. The valve plate of the EVG2 is continuously adjustable between 0 and 90 degrees. With its response times of only a few milliseconds on closing, the valve avoids any power losses.

The versatility of the EVG2 in terms of installation space and temperature resistance with its light weight make it a core product and an important technical platform in the portfolio of Purem by Eberspächer. The balanced cost-benefit ratio in particular is interesting for customers.

### **Caption:**

- *The EVG2 emission valve guarantees optimum back pressure – thanks to its fail-safe function, even in the event of voltage fluctuations or complete failure of the on-board electrical system.*

### **Global Media Contact:**

Anja Kaufer  
Head of Corporate Communications  
Eberspächer Group  
Phone: +49 711 939-0250  
[press@eberspaecher.com](mailto:press@eberspaecher.com)

\*\*\*

**About Purem by Eberspaecher:**

*Purem by Eberspaecher is a subsidiary of the Esslingen-based Eberspaecher Group. To achieve clean and quiet mobility, around 7,000 employees develop and produce exhaust and acoustic systems for passenger cars, CVs, and off-road vehicles. The technologies make a significant contribution to meeting the strictest emission standards and noise guidelines. Its customer base includes the world's leading vehicle manufacturers. In 2020, the area within the group of companies generated revenue of around 4.4 billion euros.*

**About Eberspaecher:**

*With approximately 10,000 employees at 80 locations worldwide, the Eberspaecher Group is one of the automotive industry's leading system developers and suppliers. The family business, headquartered in Esslingen am Neckar, stands for innovative solutions in exhaust technology (Purem by Eberspächer), automotive electronics and thermal management for a broad range of vehicle types. Eberspaecher components and systems provide more comfort, greater safety and a cleaner environment on or off the road. In 2020, the Group generated revenue of more than 4.9 billion euros.*