

SENSOR CLEANING VALVE



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Pierburg's sensor cleaning valve is essential for ensuring the continuous availability and reliable performance of the sensors for autonomous driving. The innovative layout delivers optimal cleaning results while minimizing water consumption. Featuring optimized flow geometries and best-in-class solenoid technology, the valve offers a compact and cost efficient design.

During operation, the valve opens and closes within milliseconds. Wide cross sections combined with optimized flow geometry minimize pressure loss, directing maximum pressure to the spray nozzle for superior cleaning performance and reduced water consumption. Best-in-class response times and high valve-to-valve actuation time reproducibility make the valve easy to integrate into any control system while further contributing to water savings.

Throughout development, a strong focus to functionality, cost, build size, weight, and noise reduction resulted in a highly competitive valve that still provides head-room for higher flow and pressure demands.

BENEFITS

- Lightweight and compact
- Fast and reproducible response times
- Low-noise operation
- Standardized interfaces
- Global manufacturing footprint (Europe, Asia, and the Americas)

TECHNICAL DATA

Operating voltage	12 V DC
Pressure range Δp	1,000 kPa max.
Media temperature	90°C max.
Environmental temperature	-40 °C to 65 °C
Opening time (@ $\Delta p=500\text{kPa}$, $T_u=55\text{ °C}$, $U=9\text{V}$)	$\leq 40\text{ ms}$
Closing time	$\leq 25\text{ ms}$
Typical flow	1.0 – 1.5 l/min

PIERBURG

Pierburg, as a heritage brand, is a system provider for high-quality and innovative solutions and control technologies for the automotive and energy industries, among others.

With its Business Sections, Pierburg stands for outstanding expertise in the following areas: air management, thermal management, e-mobility and hydrogen technology.

CONTACT

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