

2-WAY INLINE CSV



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Pierburg's innovative 2-Way Inline Coolant Switching Valve technology provides an optimum connection within tight installation spaces. By aligning the actuator coaxially with the coolant ports and eliminating the usual axial offset between input and output lines, it enables highly compact packaging and allows for flexible assembly over a full 360°.

The valve design is engineered to reduce pumping effects, which effectively minimizes switching noises. Furthermore, its optimized pressure drop performance allows for reduced power consumption of the volumetric pump while supporting throughput of up to 60 l/min (3,600 l/h).

Offering freely selectable fail-safe open or closed configurations via its modular principle, this inline valve delivers an efficient and durable thermal management solution tailored for modern automotive systems, as well as a wide variety of industrial and non-automotive applications (server-cooling).

BENEFITS

- Optimum installation space solution due to coaxial inlet and outlet design
- Highly compact packaging with the actuator located in line with the coolant ports
- Flexible assembly over a full 360° for easy system integration
- Modular principle for "high flow" allows freely selectable fail-safe open or closed configurations
- Optimized pressure drop performance reduces volumetric pump power consumption and increases throughput
- High thermal robustness across a wide temperature range from -40 °C to +140 °C

- Excellent sealing performance with internal leakage below 0.05 l/min
- Patented valve design significantly minimizes pumping effects and switching noises

TECHNICAL DATA

	Normally open	Normally closed
Operating voltage	12/24 V	12/24 V
Ambient temperatures	-40 °C to +140 °C	-40 °C to +140 °C
Media temperature	-40 °C to +140 °C	-40 °C to +140 °C
Flow rate	up to 60 l/min	up to 50 l/min
Pressure loss	70 mbar at 25 l/min	90 mbar at 25 l/min
Max. differential pressure closed	up to 3.0 bar	up to 2.0 bar
Internal leakage	< 0.03 l/min.	< 0.05 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.

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