

Press Release

LICENSE FOR METELLI'S SWITCHABLE WATER PUMP

Metelli achieves a license for its reliable, safe, and durable water pump

AUTOMECHANIKA - Frankfurt, 16-20 September 2014 – After presenting it at the last edition of **Automechanika 2012**, Metelli has obtained a license for its switchable water pump **24-1167/PA1167/101167**, developed for several different vehicle models, including **AUDI (A1, A3); SEAT (Altea, Altea XL, Ibiza, Leon); SKODA (LCV Fabia, Octavia, Roomster, Yeti); and VOLKSWAGEN (LCV Golf, Golf Plus, Jetta, Maggiolino, Polo, Touran, Caddy)**. **Metelli is the first company to have launched this kind of product onto the market. The switchable water pump is a real novelty in the automotive spare parts industry.**

The SWITCHABLE WATER PUMP makes it possible to interrupt the flow of liquid in the cooling circuit, thanks to a pneumatically actuated gate valve. The gate valve is actuated by inducing a depression in the 'vacuum chamber'. The movement of the membrane enables the valve gate to shift axially, **separating the pump's volute from the volume around the impeller**. The vacuum chamber is separated from the fluid by three membranes (instead of the traditional lip seals), which **ensure the proper functioning of the mechanism, even in heavy-duty operating conditions.**

The use of membranes as static seals makes the water pump **extremely reliable**: they compensate for the friction-related lip-seal wear caused by movement of the shaft. The presence of metallic particles in the cooling system circuit significantly increases the likelihood of deterioration of the surface of the lip seal in contact with the shaft.

In addition, if the pneumatic circuit is damaged or the spring yields, **fail-safe function of the Metelli pump is guaranteed** by a mechanism that exploits the pressure exerted by the coolant on the fluid-side walls of the membranes. On the basis of this technology, for which Metelli's know-how has been acknowledged, the company is now developing new water pump models with the same system to extend their product range and cover the growing market needs.

The achievement of this license confirms Metelli's role as major reference point for professionals and workers in the aftermarket sector and further **increases the company's competitiveness**. Metelli's offer perfectly responds to the constantly evolving new vehicle models introduced by the best car manufacturing groups.



We'll be glad to provide further details.

Sincerely,
Marketing Department
Metelli S.p.A.