

New development of coils with outer metal reinforcement

Coils with integrated circuitry give maximum protection of control electronics

Hannover 30 Maggio 2022. ATAM, a leading company in the field of encapsulated coils and industrial connections, has chosen Hannover Messe 2022 for the launch of a renewed range of coils with outer metal reinforcement.

Especially suited to severe hydraulic applications, the coils with outer metal reinforcement are now available with integrated electronic components, undertaking the important task of dampening voltage peaks; high intensity transients that can create unclean signals which may generate disturbances towards the control electronics, causing potential damage. To this end, ATAM uses transils, which are easy to integrate into the coil thanks to their small size and ability to dampen overvoltages bidirectionally (both the positive and negative waves of alternating current).

The coils with outer reinforcement offered by ATAM are the series 471, 472 and 473, in the 3 external diameters of 37 mm, 45 mm and 65 mm and with electrical connections DIN - DEUTSCH - AMP JT. All products are distinguished by an outer metal reinforcement that serves to maximise the magnetic flux, and therefore the force generated.

The offer is complete, in terms of dimensions and connections, allowing the customer to turn to a single supplier for the different needs of their machines.

ATAM's coils with outer reinforcement are characterised by an excellent linear behaviour that makes them ideal for applications on proportional solenoid valves, whose main feature is to exert a constant force for a wide range of travel, with a contained hysteresis.

ATAM is able to offer coils with external reinforcement for applications on proportional solenoid valves together with a dedicated actuator developed by ITALMAGNETI, a partner company in ATAM Group, thus ensuring maximum performance thanks to the perfect integration of the two products.

Application fields

The family of coils with outer reinforcement has been designed to be used in hydraulic applications in which high performance is required as well as resistance to severe demanding conditions, characterised by extreme temperatures and strong stresses. Therefore, they prove to be perfect in machines used in the agricultural and construction

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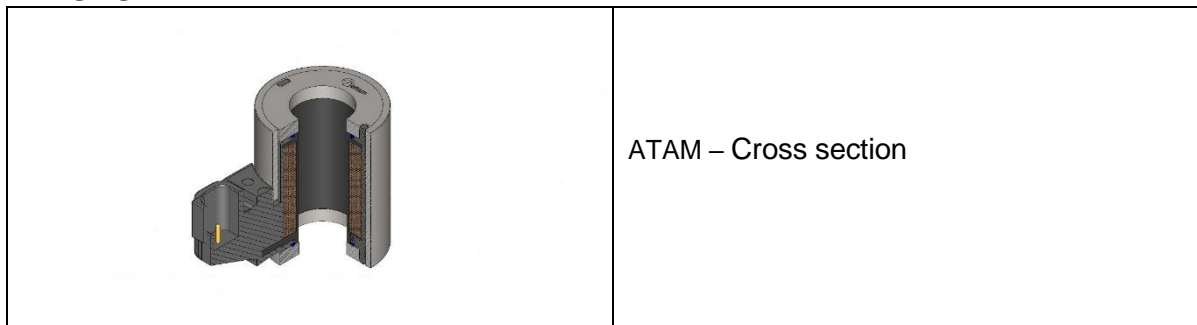
world, where they also meet the strict specifications of the OEMs relating to environmental tests or stress tests, often more stringent than those required by the reference standards of the sector. The coils with outer reinforcement are guaranteed to resist in salt spray up to 120h for white rust and up to 360h for red rust; they are also encapsulated in a high-quality thermoplastic material, which guarantees a Class H thermal resistance, for maximum operating temperatures up to 180°C.

ATAM's tailor made

ATAM's coils with outer reinforcement can be completely customised, with ATAM able to develop products with specific dimensions or connections and different treatments of the outer reinforcement. The result is therefore a very varied offer, also the result of the company's ability to find the ideal solution for any given application. Over the years, ATAM has become an expert in a variety of customer operating environments, appreciating where the coils and solenoid valves will operate and thus being able to offer all-round consultancy to guarantee a functionality and security of the coil-solenoid valve unit, that is difficult to match.

Hall 6 - Stand D75/1 in D-15


IMAGES



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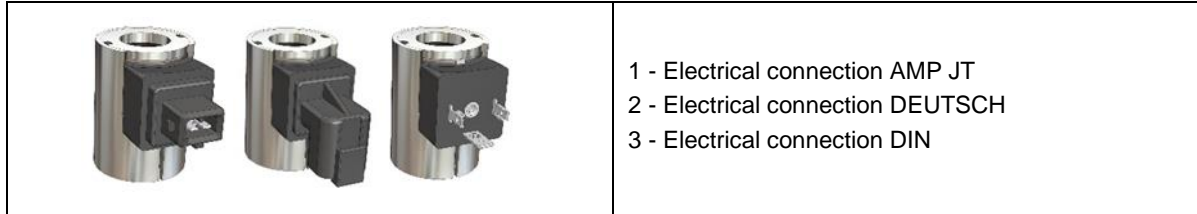
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	<p>ATAM - Exploded view</p>
	<p>ATAM - Production</p>
	<p>ATAM - 471Coil_Electrical connection DIN</p>

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