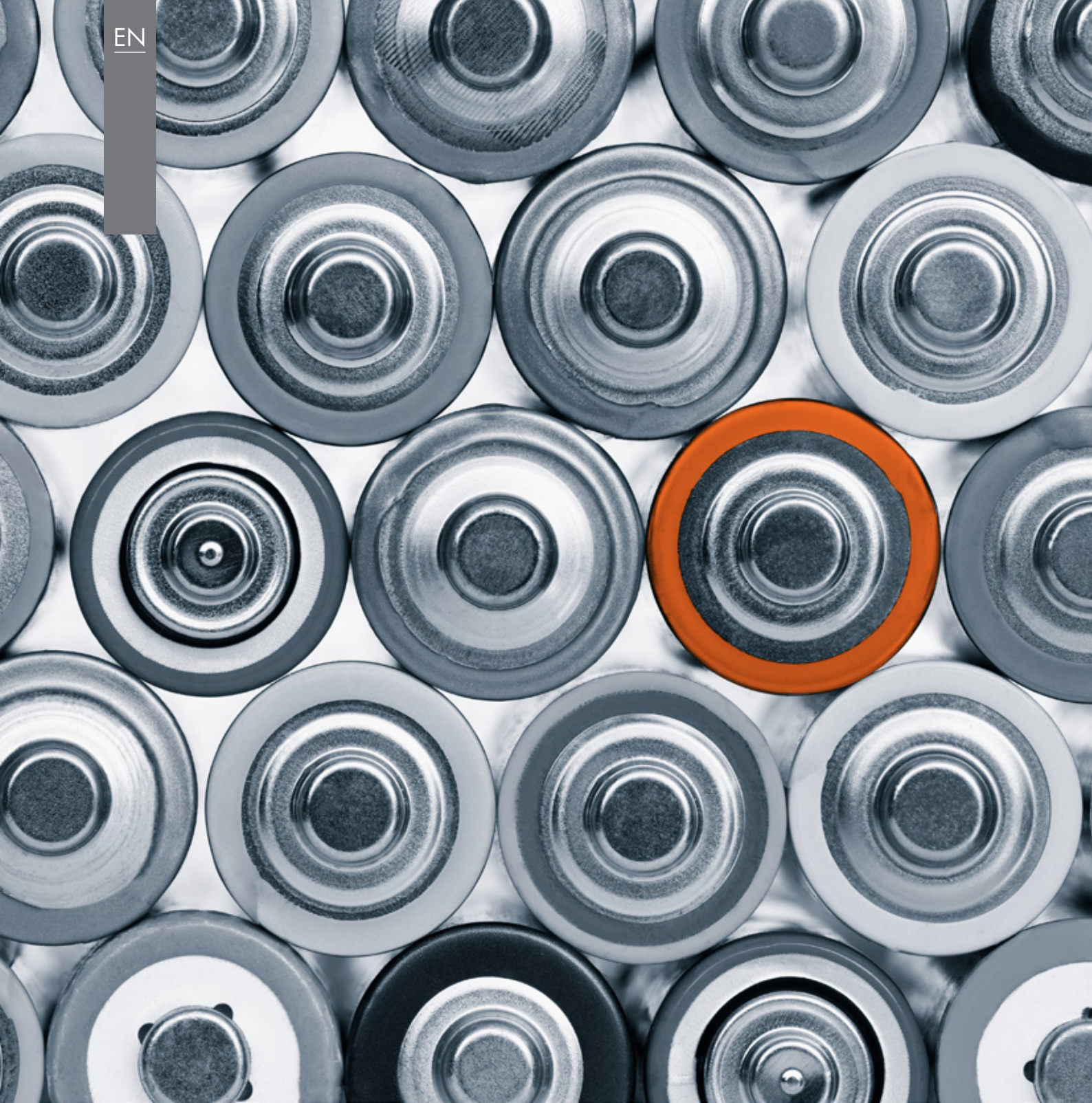




Products for battery production lines
BTY Series



Products for battery production lines - BTY Series

The rapid growth of the battery industry, driven by the development of electric mobility and energy storage systems, is imposing increasingly stringent requirements on the components used in automation systems. In this context, the selection of materials plays a fundamental role in helping to reduce the risk of contamination in manufacturing processes.

To date, there are no international standards that unambiguously define the design requirements for pneumatic components intended for battery production. However, it has become established industry practice to limit the use of materials containing copper (Cu) and zinc (Zn), as the release of these elements could compromise both the quality of the final product and the reliability of the manufacturing process.

To meet these requirements, Metal Work has developed a dedicated range of pneumatic components designed with carefully selected materials and specific surface treatments, with the aim of minimizing the presence of copper and zinc in parts exposed to the production environment. The range has been conceived to provide high reliability, corrosion resistance, and long service life, while ensuring the performance required by modern battery manufacturing lines.

The Battery Series solutions therefore represent a concrete response to the needs of a continuously evolving industry, where innovation, process quality, and careful material selection are key factors for manufacturing success.

ISO 15552 Cylinders - BTY Series

The design features of the BTY Series cylinders – which are equipped with anodized heads, chemically nickel-plated clamping screws, stainless steel cushioning pins, technopolymer guide bushing and special lubricant suitable for dry environments – make them ideal for battery production lines.

BTY cylinders, manufactured in accordance with ISO 15552, are available with STD Series or Series 3 cylinder liners, chrome-plated and ground stainless steel piston rod and polyurethane gaskets. The accessories normally recommended for HCR Series cylinders can be used.



for more info



Valves - BTY Series

Derived from the Series 70 Basic valves, the new Series BTY valves are also particularly suitable for use in harsh environments with aggressive substances.

In terms of construction, the body features anodized aluminum, while the pilot operator, the retaining plate, the clamping screws and the return spring (for monostable versions) are made of stainless steel, with the IP65 coil fixing kit included as standard.

Currently, the range includes the most common versions in 1/4" and 1/8" sizes.



for more info



Automatic Fittings - BTY Series

The BTY Series fittings use components in technopolymer or stainless steel with standard NBR seals, although special solutions with seals in different compounds can be considered.

To complete the offer, a list of the main standard fittings, which can also be used in this sector, has been included.

Metal Work automatic fittings are generally lightly lubricated in the tube insertion area. If complete absence of lubricant is required, dedicated solutions must be provided.



for more info



