

Ball valve for blade battery production line

How does a battery cell production process work?

In battery cell production, the liquid and granular raw materials are fed in using pneumatically controlled process valves. These materials are often extremely abrasive and corrosive. To make sure the process is reliable, the automation components required need to be extremely sturdy.

What is a VZBF valve?

A manually actuated ball valve VZBF acts as a drain valve. The individual vacuum lines are regulated by a pinch valve VZQA, which is actuated using a proportional pressure regulator VEAB. This facilitates precise regulation of the required vacuum level, and also optimises the energy consumption.

What is a battery handling system?

Handling systems from Festo help with loading the battery cells onto the workpiece carriers for insertion into the process camera and then unloading them again afterwards. Electric vehicles are setting a trend. However, their success depends on high-performance and cost-effective batteries.

How is a diaphragm valve actuated?

The diaphragm valve is actuated by individual valves VUVG or valve terminals VTUG- all compact, high-performance and attractively priced valves from the Festo core product range. The extreme ambient conditions during the filling process call for materials that are resistant to chemicals and high temperatures.

How do battery modules work?

Once the individual battery cells have been produced, they are combined into battery modules. This is done by installing a specific number of round or pouch cells in module housings and securing them in place using bonding processes.

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PVDF V-port control ball valve. PPH Non metallic needle valve. The Global automotive battery market is expected to reach USD 95.57 billion by 2025 as the scope and its ...

An electrically actuated ball is basically a standard lever ball valve with an electric motor and gear box mounted above it to open and close the valve. It is quite common for the connection ...

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