

FACT SHEET

Cover with integrated gasket

ElringKlinger offers stamped metal covers with integrated gasket which offer superior sealing function in combination with faster assembly in the customer plant. Potential applications are EDU Covers, Battery Covers and Fuel Cell Covers.



Function-integrated and shielding

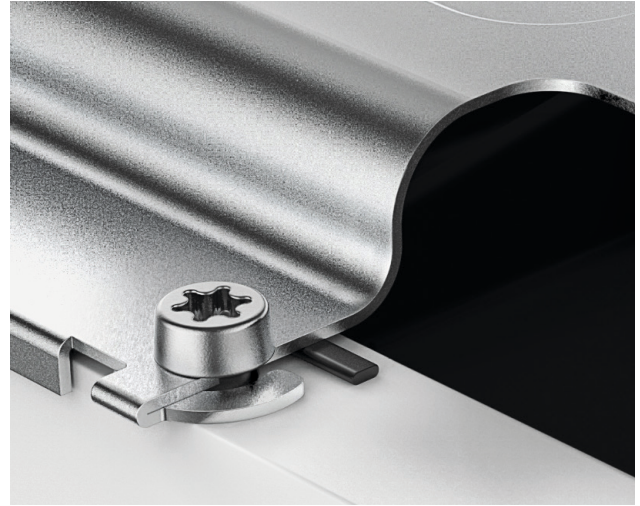
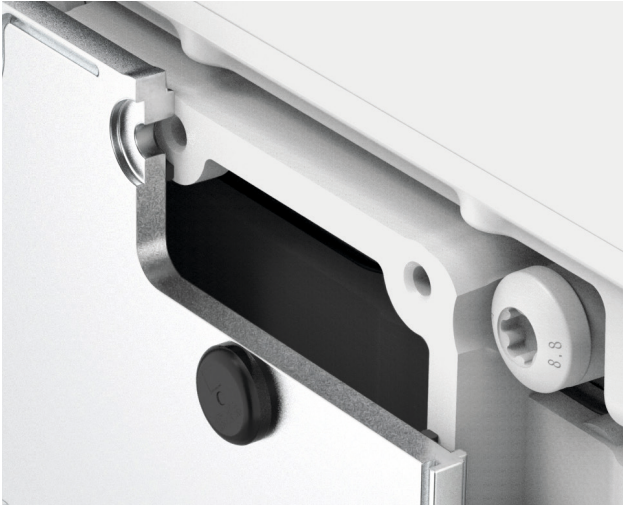
Covers with integrated gaskets made by ElringKlinger

Technology

The product combines cover and gasket in one functional unit. The cover is produced in a stamping process, mechanical machining is not needed. The gasket is applied in a dispense process. The durable and highly adaptive gasket material reduces the required sealing flange width and sealing contact pressure by 10-30 %. The bolt force is supported by the coined compression limiters, so no groove is needed. Coined steps and beads improve the EMC behavior by providing a direct metal to metal contact along the flange.

TECHNICAL PARAMETERS

- + Cover Material: Aluminum or stainless steel with a thickness of 1-5 mm
- + Bolt distances: 100-200 mm (adaptable)
- + Cover sizes: 50x50 ... 1.500x1.500 mm
- + Flatness requirement for flange: up to 0.4 (dep. on design)
- + Flange surface requirement: Casted surface quality ok to seal
- + Different compression limiter designs available
- + Integration of ventilation valve is possible



Benefits

- + Cover and gasket as one functional unit
- + Easy installation in assembly line
- + Design of counterparts can be simplified (reduced flange width, less bolts, no groove)
- + System with proven superior corrosion performance
- + Good EMC behavior due to coined protectors and deep drawing collars
- + Functional Integration possible (e.g. vent, bolts, etc)



ELRINGKLINGER – YOUR PARTNER FOR COVERS WITH INTEGRATED GASKET

Product Development (Design, Engineering and Simulation) – Process Development – Tool Shop – Tool Sampling/Prototyping – Testing – Change-Management – Series Production – Part Measurement

YOUR CONTACT

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