

BOYER - Manufacture of high-pressure manlids

An art form in itself



Boyer



since 1936

boyer.fr



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Created in 1936, BOYER is the specialist in high pressure manlids and has always been at the cutting edge of research and technology to fulfil the specific needs of the food, pharmacy, cosmetic and chemical industries. Today, the company has a worldwide reach and is a leader on its market.

Over the years, BOYER has been guided by the spirit of its founder, offering its customers the best products, most suited to their needs. BOYER manlids provide total safety, best quality and total user satisfaction.

INNOVATION AS A STRATEGY

Ever aware of its customers and their needs, BOYER's R&D is its major asset. This department constantly designs, manufactures and tests technical innovations and prototypes at its test centre to improve its response to user requirements consistently.

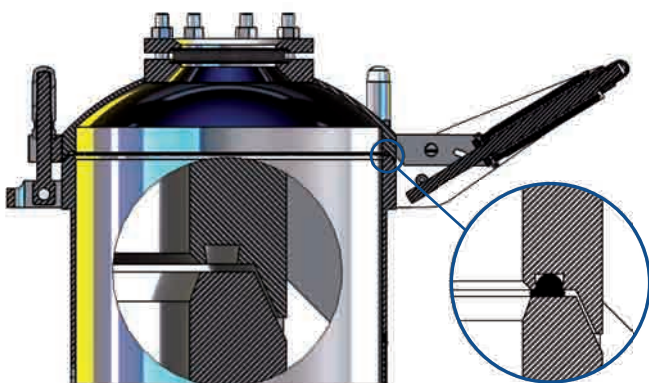
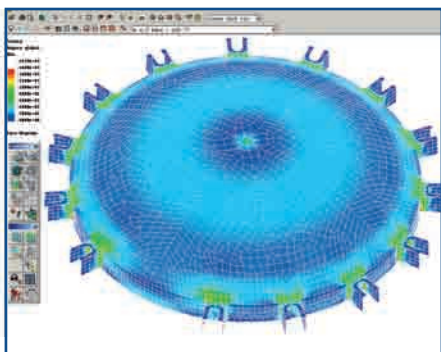
Through constant and extensive investment, BOYER continues to make technological advances by perfectly mastering vacuum and pressure techniques, developing its own design tools, manufacturing and inspecting, as well as by meeting current standards and market requirements.

By handling design, materials development and manufacture of seals, BOYER has full control over all the functions, pressure resistance and aseptic characteristics of its products and can meet the requirements of industries producing in clean environments.

AN INTEGRATED DESIGN AND ENGINEERING DEPARTMENT

Working according to customers' specifications and requirements, the design and engineering department designs and develops the most suitable product for the industrial needs. It is equipped with four workstations, Solid Work 3D CAD design software as well as Ansys and Castor engineering software.

The design and engineering department designs and carries out studies by static and dynamic finite elements, assesses and qualifies prototypes, prepares design calculations and plans with supporting certificates, qualifies products through the perfect control of vacuum, pressure and temperatures. This means a veritable bespoke service can be provided.





BOYER KNOW-HOW AND QUALITY

Through its innovations and thorough knowledge of production techniques, BOYER has gained a first class reputation for providing a range of manlids of best quality and total safety for users.

The right choice of steel for the specifications

Using its vast experience, BOYER selects high quality steel such as 2B finish cold rolled sheets for manlid hatches and flat hot rolled steel for the frames, according to particular specifications.

The suitability of the materials for the actual product is a determining factor in the quality of the manlids.

BOYER pressure manlids are designed to fulfil a vast range of requirements such as:

- complete control of vacuum, pressure and temperatures,
- hygiene and aseptic nature: all components can be cleaned, no retention zone, inner and outer finish (possibility of ra up to 0.4), seal position providing an optimum surface for cleaning and sterilisation,
- ergonomics via the opening system, auto centering and guiding,
- safety provided by the SYDEC® system (BOYER patented) for two-phase manlid opening, self-locking clamping lever, safety grate, index pin, positioning of lid on a tapered frame for guaranteed centring,
- upkeep and ease of equipment maintenance.



Seals are designed and made according to BOYER design

BOYER has integrated the development, design and manufacture of its pressure seals to have complete control over the entire process and provide the perfect guarantee of its manlids. The seals are clipped on or set (no glue required). Made of natural, EPDM, nitrile, butyl, silicone, FEP viton® and FEP/FPM viton® rubber, and elastomers for special applications, the entire range meets FDA and 3A standards. The seals are USP XXV class VI certified for EPDM and USP XXIII class VI for silicone.

Specific functions integrated on request

Manlids can be made with sightglasses equipped with sodium silicate or borosilicate glass (with 2.2 certificate), with or without halogen lighting, Atex approved LED, protection grills and wipers, as well as pressure relief valves, delivery valves, sensors, probes... All special functions can be examined and manufactured.





COMPLETE CONTROL OVER THE MANUFACTURING LINE

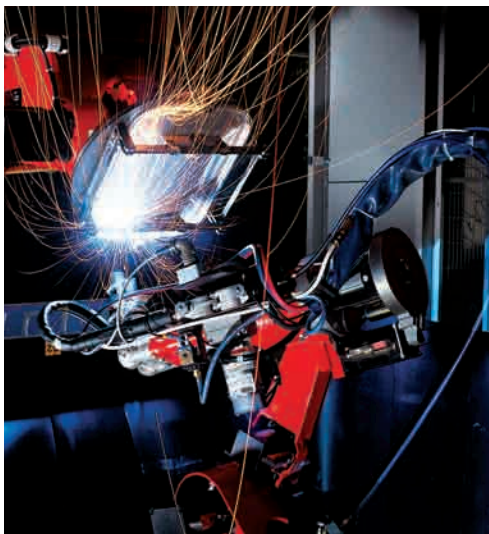
All BOYER manlids are designed and made in our own workshops in accordance with current standards.

Qualified technicians

BOYER welders are skilled professionals, have extensive knowledge of working with steel, and their vast experience in this domain enables them to provide unequalled manlid manufacture. A team of qualified polishers produce a perfect surface quality for the nature of the product. Our technicians' level of qualifications and welders' certification are kept up to date by regular training courses.

Latest generation facilities

BOYER controls the entire manufacturing line of its manlids using the latest equipment: welding robots, high performance polishing machines to achieve the desired finish (Ra) up to 0.6 microns, hydraulic presses from 100T to 600T, machining centre and numerical controls, washing machine as well as its own manufacture tools and quality control.



Constant unit by unit control

Throughout the production cycle according to a quality procedure: from incoming raw materials to the shipment of the manlid (sheet for component materials, sheet for finished product), markings on the manlid and frame (steel grade, heat number, batch number, manlid item number, CCPU product inspection certificate, seal material certificate).

Controls that go above and beyond current standards

Thickness by ultrasound, penetrant inspection and welding radiography, surface condition by surface indicator, regularly calibrated and inspected measurement equipment.

Environmental policy

BOYER is fully committed to a sustainable development policy by striving to minimise the impact on its activity on the environment. Whilst respecting applicable regulation and conducting regular audits, the company also carries out systematic control of waste water and gas emissions and has an optimum waste management strategy.



BOYER makes all types of manlids, manufactured in accordance with all current standards. Designed to be fitted to pressurised equipment, the pressure and temperature limits must not exceed those specified by BOYER. All parts are BOYER manufactured and under warranty.

> Ø 200 to 400 mm
PS-1 > 7 bar



> 411 x 455 mm
PS-1 > 6 bar



> Ø 100 to 1100 mm
PS-1 > 12 bar



STANDARDS AND CERTIFICATIONS

BOYER is able to meet all current standards by:

- fully controlling the entire manufacture process, from receipt of raw materials (materials certificate 3.1) to the inspection of its end products, certified by French government agencies.
- regular training of its operators in the welding process according to EN287-1 standards.

For steel and stainless steel (in contact with the products), issuance of materials certificate according to the following standards:

- EN 10088-2 / EN 10028-7 - EN 10088-3 / EN 10272
- ASME SA 240 / ASME SA 479
- AD 2000-Merkblatt W2/W10 EN 13445

The manlids are manufactured in accordance with the following building codes:

- CODAP (latest revision) in accordance with DESP 97/23/CE
- ASME section VIII division 1 (latest revision)
- AD-Merkblatt HP 0 (TRB 200) - latest revision - DIN EN 729-3 in accordance with DESP 97/23/CE
- GOST-R

BOYER AROUND THE WORLD

BOYER is a genuine partner for industry and can call upon its extensive team of technical sales representatives in France as well as its vast network of partners around the world to keep in touch with its customers.

A professional approach built around being attentive to its customers and mastering the know-how to develop the right solutions and provide a range of excellent quality high-pressure manlifts.



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