

Badotherm

manufacturing mechanical process instrumentation



Badotherm

Badotherm is a European manufacturer of high quality mechanical process instrumentation. We are a family owned company with over 50 years experience in the industry and thoroughly understand the requirements put on our products alongside the needs of our customers.

Dedication to Quality

Our dedication to quality is a founding principle of Badotherm. This commitment is underscored by our ISO 9001:2008-certified Quality Management System, which challenges us to continuously improve our processes and approaches in order to deliver the best possible results in the field.

Customer service

At Badotherm, we maintain high standards when it comes to supporting our customers. We employ a courteous and capable technical sales support team, who have an abundance of collective expertise in mechanical process instrumentation. This together with a thorough knowledge of your industry allows us to provide you with comprehensive support. To ensure reliable and durable measurements, we guide you through the instrument selection process to find the right solution for your requirements.



EPC - Project Engineering and Documentation Support

With our experience of mechanical instrumentation products and associated applications, Badotherm are familiar with the varying demands of EPC project requirements. We can assist with the engineering and technical guidance from the start and offer a constant support service throughout the project. Our global presence also allows us to service international projects. So should projects be designed in Europe, procured in the Far East and installed in the Middle East, you can be guaranteed of our support in all stages and in all areas.

- Engineering support - For instrumentation projects, we partner up from the start of the project. We help to engineer the correct instruments for the application. We have clear project plans and together we decide time schedules. Throughout the project we can keep you informed of the progress of manufacturing and planning.
- Clear documentation - Complete documentation packages (MDR/MRB) determined at the outset of the project with clear timelines for submission of approval and final documents. Available in both hard copy and electronic formats.
- Inspection and Testing - Full inspection and test facilities at our headquarters in The Netherlands, or at any of the Badotherm offices, together with available staff familiar with the project and specializing in all technical, documentation and logistical matters.
- Efficient Logistics - Projects can be shipped virtually anywhere in the world by air or sea freight either direct or via a nominated forwarder. All products will be well protected and packages clearly marked in accordance with your instructions.
- After-Sales Service - Badotherm support staff are always available to discuss any after sales issues. We can guarantee continuity of supply for all items supplied to a minimum of 5 years from despatch.



Our product lines

All our products are manufactured in our factories located within the European Union which employ stringent high quality controls for materials and manufacturing. All products can be supplied with certificate of origin and 3.1 material certificates according to EN 10204.

- Pressure gauges - Badotherm stainless steel pressure gauges are manufactured according to the EN837-1-3 standard and comply to PED 97/23/EG. Many of the pressure gauges also comply with the ATEX Directive 94/9/EC. Wetted parts in Monel 400 are optional. Differential pressure gauges are available from 16 mbar to 25 bar and optional in several exotic wetted parts.
- Instrument accessories - Installation of the pressure gauges often require one or more accessories, usually to protect the instrument. Next to diaphragm seals, the instruments can also be supplied with additional accessories such as overpressure protectors, temperature reducers, snubbers and/or siphons for steam applications.
- Instrument needle valves and manifolds - Most gauges require a valve to isolate and/or vent the pressure gauge or instrument. These can be either the one and two way manifolds for standard gauges or three and five way manifolds for differential gauges and transmitters. As with all other Badotherm products, these items are manufactured within the European Union.
- Diaphragm seals - Badotherm have a wide variety of diaphragm seals available to suit each specific application, in conjunction with both pressure gauges and pressure transmitters. Mounting and filling is done professionally according to stringent procedures. For pressure transmitters, all communication tools for the various communication protocols are in-house. Furthermore, we have an extensive range of flushing and reducer rings and flanges available.
- Temperature gauges and thermowells - A wide range of dial thermometers and thermowells are available. The bi-metal and gas-filled temperature gauges are manufactured according to EN 13190 - ISO/IEC 17050. Thermowells are available in threaded and flanged types according to the international flange standards and in various exotic materials.

Overview of instrument c

The below overview show the numerous instrument combinations that are possible. For each application, the instrument combination can be different. The process determines whether an instrument can be mounted directly into the process or requires a manifold, an overpressure protector, a diaphragm seal, or any combination of these accessories. These so-called 'instrument-towers' can be supplied

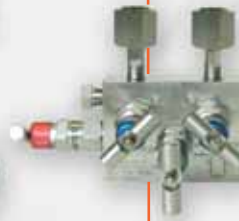


Badotherm Pressure gauge

Overpressure protector / snubber



Shut-off valve / Manifold



Direct



Example of pressure gauge combination with overpressure protector and threaded seal.



Diaphragm
Flanged, threaded / flush or off-line diaphragm



Reducer / flushing

combinations and options

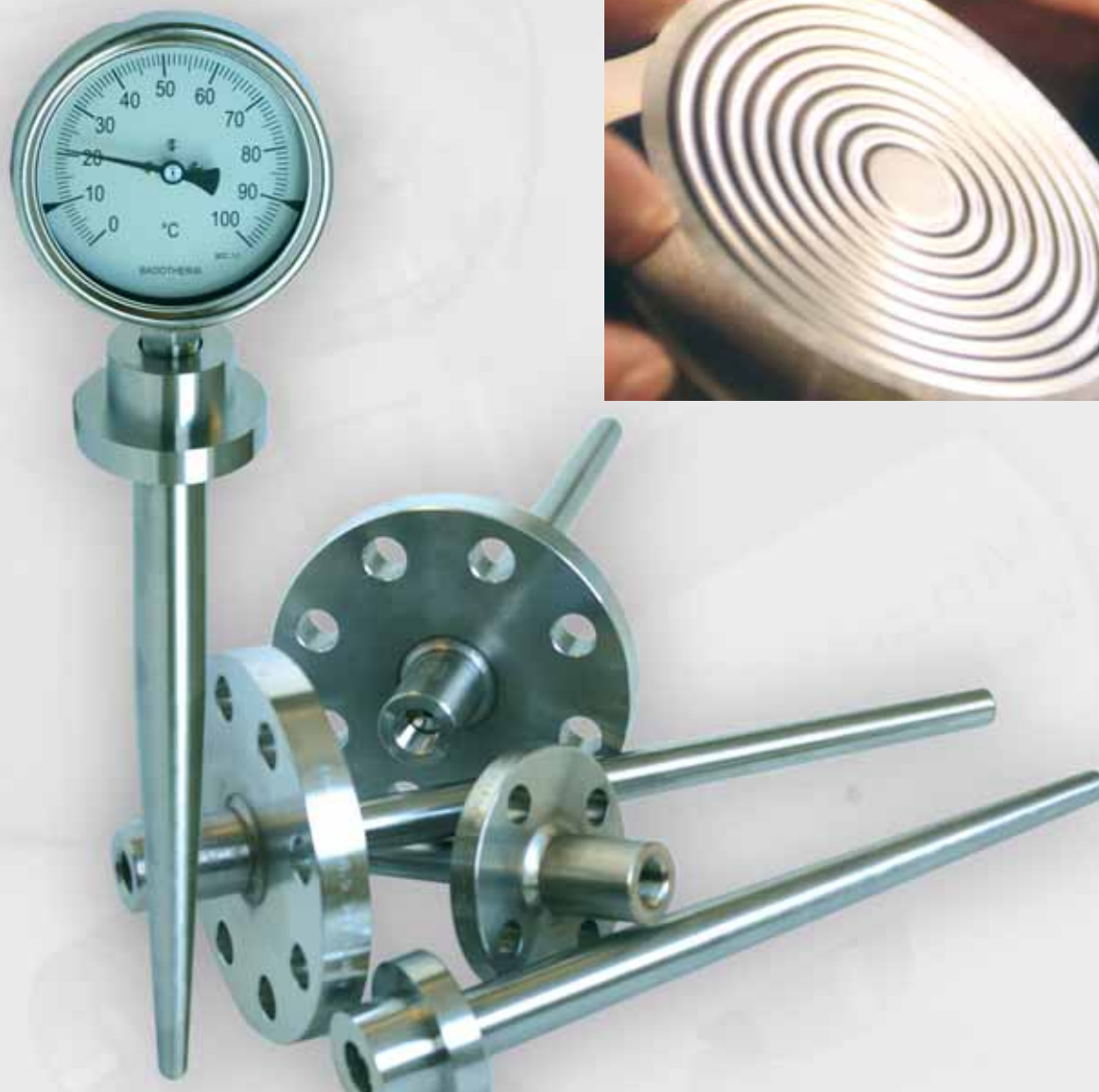
fully assembled and tested by Badotherm, including all related material and pressure test certificates for the complete assembly.
The overview shows the Badotherm scope of supply and the combinations possible, but the items can be also ordered individually.
All products are manufactured in Europe at Badotherm factories and carry the Badotherm brand name.



Thermometers and Thermowells

Badotherm manufacture a wide range of dial thermometers and thermowells. Thermowells are used in any application where the bulb of the thermometer may be exposed to pressure, corrosive fluids, or high velocity. Additionally, the use of a thermowell permits instrument inter-changeability or recalibration without shutting down the process.

As we manufacture both items you can be assured of a perfect fit between the thermometer and thermowell in relation to stem diameter and bore, stem length and thermowell immersion, and the instrument and thermowell connection. Thermowells are manufactured in accordance with the relevant flange standards (according to ASME B16.5 / EN1092-1) and can be manufactured from bar stock, forged or solid machined material. Thermowells can also be manufactured in accordance with specific customer requirements and in various exotic materials. Wake frequency calculation reports (according ASME PTC 19.3 TW-2010) can be supplied on request and is recommended for critical applications.



Diaphragm seal renewal - repair service

Badotherm offers a repair & maintenance service for pressure transmitters with damaged diaphragm seals. One of the advantages of diaphragm seals is that they can be renewed whilst re-using the original pressure instrument. It will then function just as a new instrument, but with the benefits of lower cost and shorter lead time than buying a new instrument with seals. Each returned instrument is analyzed and checked before we advance to the renewal of the diaphragm seals. The instrument will also be validated by a calibration test report



Never compromise on quality

About Badotherm

We are a European manufacturer of mechanical process instruments with a worldwide distribution network. We have regional Diaphragm Seal assembly facilities in Europe, the Middle East, India, the Far East and the Americas. We design, engineer and manufacture Diaphragm Seals, Pressure Gauges, Temperature Gauges and Thermowells, Instrument Valves and Manifolds. Next to our product offering, we develop tailor-made solutions for challenging conditions in the field of Diaphragm Seal measurements. Headquartered in the Netherlands, we employ over 225 people in seven different countries.



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