

Product range for shipbuilding and industry
Valves, system solutions and service



Fritz Barthel Armaturen GmbH & Co. KG



**INDUSTRIAL VALVES AND
SHIPBUILDING VALVES**



JIS VALVES



NAVY VALVES



CONTROL VALVES



SAMPLING SYSTEMS



**DIFFERENTIAL PRESSURE
DEVICES**



CUSTOMISED SOLUTIONS



BOILER EQUIPMENT

Expert advice

Do you have any questions about our products? Or are you looking for a customised solution tailored to your needs? Our experts will be happy to advise you.

Customised solutions

Thanks to our in-house production we are able to respond flexibly to your individual requirements and to offer you tailor-made solutions for your field of application.

High availability from stock

Our comprehensive product range is generally immediately available from stock. We can also offer you short delivery times thanks to our worldwide network of stockists.

Over 90 years of experience

Our family business is now in the third generation and stands for quality, flexibility, innovative product solutions and reliability – and that since 1932.

Ihr starker Partner für folgende Marken



Navy valves

Valves



Material:
bronze, aluminium, stainless steel

Connections:
Connections according to
VG 85011 or DIN 85389

Nominal sizes:
DN20 – DN300

Seals:
metallic, soft sealed

Gate valves



Material:
bronze

Connections:
Connections according to
VG 85011 or DIN 85389

Nominal sizes:
DN32 – DN300

Seals:
metallic

Butterfly valves & swing check valves



Material:
bronze, aluminium bronze,
cast steel

Connections:
Connections according to
VG 85011 or DIN 85389

Nominal sizes:
DN50 – DN300

Seals:
HNBR, Viton

Ball valves



Material:
bronze, aluminium bronze,
stainless steel

Connections:
to customer's specification

Nominal sizes:
DN15 – DN100

Seals:
metallic, soft sealed

Other navy valves



Material:
bronze

Connections:
Connections according to
VG 85011 or DIN 85389

Nominal sizes:
DN20 – DN300

Seals:
metallic, soft sealed



Shipbuilding and industry

Calves & safety valves



Material:

i. a. cast steel, gunmetal, brass, stainless steel, spheroidal cast iron

Connections:

flange connection and female thread

Nominal sizes:

DN15 – DN300

Seals:

metallic, soft sealed

Gate valves & ball valves



Material:

i. a. cast steel, gunmetal, brass, stainless steel, spheroidal cast iron

Connections:

flange connection and female thread

Nominal sizes:

DN15 – DN300

Seals:

metallic, soft sealed

Swing check valves & butterfly valves



Material:

i. a. cast steel, gunmetal, brass, stainless steel, spheroidal cast iron

Connections:

flange connection and female thread

Nominal sizes:

DN15 – DN800

Seals:

metallic, EPDM, PTFE, NBR

Pressure reducing & fire valves



Material:

i. a. cast steel, gunmetal, brass, stainless steel

Connections:

flange connection and female thread

Nominal sizes:

DN15 – DN300

Seals:

metallic, soft sealed

Level indicators & filters



Material:

i. a. cast steel, gunmetal, brass, stainless steel

Connections:

flange connection and female thread

Nominal sizes:

DN15 – DN300

Seals:

metallic, soft sealed

Pressure gauges & flanges/fittings



Material:

i. a. cast steel, gunmetal, brass, stainless steel

Connections:

flange connection and female thread

Nominal sizes:

DN15 – DN300

Seals:

metallic



JIS valves

JIS valves

**Material:**

i. a. cast steel, gunmetal, stainless steel, grey cast iron

Connections:

flange connection

Nominal sizes:

DN15 – DN400

Seals:

metallic

JIS gate valves

**Material:**

i. a. cast steel, gunmetal, stainless steel, grey cast iron

Connections:

flange connection

Nominal sizes:

DN40 – DN300

Seals:

metallic

JIS swing check valves

**Material:**

i. a. spheroidal cast iron

Connections:

flange connection and female thread

Nominal sizes:

DN40 – DN800

Seals:

metallic, soft sealed

JIS swing check valves

**Material:**

i. a. cast steel, stainless steel

Connections:

flange connection

Nominal sizes:

DN50 – DN200

Seals:

metallic, soft sealed

JIS flanges, JIS valves & JIS accessories

**Material:**

i. a. cast steel, stainless steel

Connections:

flange connection

Nominal sizes:

DN15 – DN300

Seals:

metallic

Other JIS valves

**Material:**

i. a. cast steel, gunmetal, brass, stainless steel

Connections:

flange connection and female thread

Nominal sizes:

DN15 – DN300

Seals:

metallic, soft sealed



Control valves



Manual shut-off valves

Material:
cast iron, nodular cast iron,
cast steel, stainless steel

Connections:
flange connection and
female thread

Nominal sizes:
DN15 – DN400

with electric or
pneumatic drive

Mechanical temperature control valves

Material:
gunmetal, cast iron,
nodular cast iron, cast steel,
stainless steel

Connections:
flange connection and
female thread

Nominal sizes:
DN15 – DN300

Mechanical overflow and pressure-reducing valves

Material:
gunmetal, cast iron,
nodular cast iron, cast steel,
stainless steel

Connections:
flange connection and
female thread

Nominal sizes:
DN15 – DN300

Control valves

Material:
cast iron, nodular cast iron,
cast steel, stainless steel

Connections:
flange connection and
female thread

Nominal sizes:
DN15 – DN500

Ball valves

Material:
brass, nodular cast iron, cast
steel, stainless steel, PTFE lining

Connections:
flange connection and
female thread

Nominal sizes:
DN15 – DN300

with electric or
pneumatic drive

Shut-off and control valves

Material:
nodular cast iron, cast steel,
stainless steel, PTFE lining

Connections:
flange connection and
female thread

Nominal sizes:
DN15 – DN1600

with electric or
pneumatic drive

Stock valves

Material:
cast iron, stainless steel

Connections:
flange connection and
female thread

Nominal sizes:
DN15 – DN500

with electric or
pneumatic drive

Barthel control valves

Material:
cast iron, stainless steel,
nodular cast iron, cast steel

Connections:
flange connection and
female thread

Nominal sizes:
DN15 – DN250

Larger nominal sizes and higher
nominal pressures on request.



Sampling of liquids



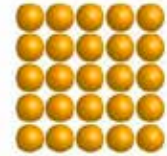
Sampling of gases



Sampling of melts



Sampling of solids



TKW tanker sampling valves



FVS samplers



Line samplers/ drip samplers



Sampling systems for ammonia



Samples are necessary to optimise process engineering, to control and monitor chemical reactions or to check the quality of starting materials, intermediate and finished products. Sampling plays a crucial role here: sampling systems have to enable safe intervention in closed processes.

The design of a sampling device depends on

- the specific material properties of the product to be sampled
- the physical condition of the substance to be sampled at the sampling point
- the operator's safety regulations
- general technical requirements including legal regulations
- constructional boundary conditions

It is essential to take samples safely, representatively and with no dead spaces.

The wide range of equally important requirements necessitates the individual design of optimal sampling systems. To achieve this, close cooperation with the customer's operations, analytical technology and occupational safety departments is necessary. We are happy to put our many years of experience and high flexibility in design and manufacturing at your disposal.



Differential pressure devices & custom made solutions



Product portfolio: We offer restriction and differential pressure devices for your application from DN 50

- Slide-in orifice plates
- Standard orifice plates
- Baffle plates
- Measuring flanges

Calculation of restriction and differential pressure devices

- Calculation of complex differential pressure devices for you.
- When designing the devices, we support you with our many years of experience in the field of measurement and control technology.
- We can supply you with drawings and calculations for the on-site production of large-scale devices (e.g. Venturi tubes with DN > 1500).



Custom made solutions

It is our many years of experience and our practical approach that stand us in good stead in the field of special valves and system engineering, especially when it comes to our customers' individual requirements. From the simple modified standard valve through the design and setting of actuators and control systems right up to tank and plant construction, we develop, design and manufacture according to your individual specifications.

We have ideas and put them into practice for you!

GESTRA

GESTRA steam traps



GESTRA non-return valves



GESTRA control valves



GESTRA return temperature control valves



Blowdown valves



Oil detectors



Overflow valves & pressure-reducing valves



GESTRA industrial electronics



Barthel Armaturen is an official GESTRA technology partner

We are proud to be the only GESTRA technology partner in the North of Germany and to be able to offer you expert and individual advice for the complete GESTRA product range. Belonging to GESTRA's highest partner category, we operate throughout Germany as a provider of engineering services and complete solutions and are experts for tailor-made solutions.

Parker

Parker fluid connectors



Parker tools & Parker assembly machines



Shut-off valves, ball valves and check valves



Parker tubes & Parker tube elbows



We have been an authorised and certified Parker Hannifin (mainly known as ERMETO) authorised dealer since 1937. This makes us the second oldest partner supporting Parker nationally. With our current status as full-line dealer, a high stock level and our own hose line assembly, we are able to supply you quickly and flexibly with the complete product range for hydraulics and pneumatics and other industrial accessories.

- Parker fluid connectors of galvanised steel, stainless steel, brass, CuNi10Fe or bronze
- Parker shut-off valves, ball valves and check valves
- Parker pipes, pipe elbows, pipe clamps, hoses and customised hose lines
- Tools, flanges, hydraulic flanges, seals, assembly adhesives
- Parker quick-couplings
- Parker measuring devices and SensoControl
- Parker Legris



Boiler equipment

Reliability, availability and efficiency have top priority in the field of boiler operation. Barthel Armaturen offers you professional advice and boiler equipment from a single source.



GESTRA steam boiler electronics, valves and more

- Water level electrodes with "high-integrity design"
- New level electrode NRG16-50 with new switch NRS1-50
- Also available: level electrode NRG16-11 or NRG16-11S for seagoing vessels with switch NRS1-50
- Overfill protection level electrode NRG16-12 with "high-integrity design" and switch NRS1-51
- Water level controller with NRGT26-1 or NRGT26-1S for the boilers of seagoing vessels

GESTRA condensate monitoring

- GESTRA oil and turbidity controller Type OR52-5 for monitoring the ingress of foreign particles such as oil, grease, etc. consisting of the measuring detector ORG12 and the measuring unit ORT6
- GESTRA conductivity monitor e.g. with LRG 16-9, LRS1-7 or LRS 1-50
- GESTRA continuous and intermittent blowdown valves Type PA 46 and BA 46

Barthel control systems

- K292
- Clorius Controls ER2022
- NRR 1-50
- NRR 2-52 Touch
- Evaluation electronics in local control cabinet

Barthel pump technology

- CR Grundfos feed water pump with low NPSH value and high operational safety
- MAGNA1 Grundfos circulation pump

Accessories

- Barthel safety valves Type 05-030 for steam boilers
- Barthel manual shut-off valves as STOBV or FABA valve
- Dirt traps
- Sight glasses
- RK Disco check valve
- Reflex water level indicator
- VLI magnetic level indicator (not directly on the boiler)

Further equipment

- Sampling cooler Type 58-160
- Barthel boiler measuring bottles
- Connectors
- Flanges for the attachment of electrodes



A complete range of services!

"Better a small master than a large servant" ...

True to this motto, Fritz Barthel founded Fritz Barthel Armaturen on 1 April 1932.

With his many years of experience in shipbuilding and his in-house production, he quickly achieved a high level of customisation to the special requirements of the Hamburg and North German shipyards and industries.

Even today, we continue to work to create a balanced and high-quality product range. The mixture of quality, know-how and family tradition in the third generation offers you a flexible and reliable partnership. With state-of-the-art fabrication on conventional and CNC lathes and milling machines, we manufacture from all materials according to your or our drawings (2D/3D). Our large warehouse enables short delivery times.

As a service provider and service partner, we also offer repair, inspection and adjustment of steam traps, safety valves and control valves at short notice.

Certifications and approvals

Quality assurance has traditionally been a high priority in our company. Some of the approvals we hold are:

- since 1996 the quality assurance system ISO 9001
- since 2001 the Pressure Equipment Directive 2014/68/EU (PED)
- Function and pressure test according to EN 12266
- approved welding company



Fritz Barthel Armaturen GmbH & Co. KG

Schnackenburgallee 16
22525 Hamburg, Germany
+49 (0)40 - 39 82 02 - 0

Mo–Th 7:30–16:30, Fr 7:30–14:30
post@barthel-armaturen.de
www.barthel-armaturen.de

