From the humble beginnings...
BESI History

...to a globally operating company ...

1995: Delivery of first complex remote controlled valve system to a shipyard in China for the oil industry and a newly developed trans level gauging system to McDermott Werft in Germany.
1996: Founder Helmut D. Berg leaves the company.
1997: Company is named BESI Automation GmbH & Co. KG.
1998: Delivery of first anti-heeling system to a China shipyard.
2002: Delivery of first remote controlled valve system for an offshore platform in the gas industry.
2003: Takeover of business by Marko Biermann and Maria Köhler.
2006: Company is renamed BESI Marine Systems GmbH & Co. KG.
...with over 5000 systems delivered in our 50 years of experience!
We are ...

- Located in Bremen (Headquarters) ...
- With production facilities in Germany and Poland.
- Globally active and represented by more than 32 agents.
- Custom designing, building and supporting our products with more than 80 highly skilled employees.
We represent / stand for …

- Individual engineering solutions
- Products and services “Made in Germany”
- 24/7 Global Service
- Fast and reliable spare parts supply
- Worldwide Warranty
- State-of-the-art production technology
Every ship is made up of a lot of items/parts ...
We handle the control, flow, measuring and monitoring of all liquids with our proven and reliable systems.
BESI integrated solutions

Custom build control and monitoring systems

For ...
• hydraulic,
• electro-hydraulic,
• pneumatic,
• electric
... based Flow Management systems.
Controlling and monitoring the systems

Fully customized hardware MIMIC

Fully customized software MIMIC, can be operated from any PC
Volumetric position indication

BESI Volumetric Position Indicator (HSA)
One (of many) liquid applications aboard

Engine ... needs fuel & oil ... and in the right quantity and temperature ...

- Heavy Fuel Oil
- Marine Diesel Oil
- LNG
- Oil/Lubricants
Delivering the liquids where they are needed ...

Hydraulic

Electro-hydraulic

Pneumatic

Electric

BESI designed valves
2- or 3-way regulating valves

Made in Germany – Long life span
(compared to other valves of the same type)

- 2-way for regulating flow
- 3-way for mixing or diverting function
- Actuator either electric, pneumatic or hydraulic
Solutions in case of emergencies

**Emergency Shut-Down** valves, primarily used in gas systems (like LNG)

**Quick closing valves** system, most commonly used in the fuel system
Depending on the cargo loaded, a ship needs more or less ballast water to stay at the right draught...

Functions of a ballast system...

- Getting water into and out of the ship
- Transfering water in the ship to keep it at the right level/draft
A crane, weight and physics ...

An anti-heeling system

... keeps the ship on an even keel (list)
... what happens when the AHS fails
The liquids need to be stored and monitored...

Tank level gauging

A working ballast water and fuel system needs accurate tank level gauging
Human / Machine interface
Human / Machine interface
Electronic tank level sensors

- Very durable ceramic measuring cell
- Precise measuring
- Different measuring principles available – depending on the task
- Made in Germany

G72
G14
Swing51
G63
Among other possible applications, a very good alternative to submerged installed tank level sensors.
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