

Providing the perfect
solution for the most
demanding fluid
handling applications

HALMA
Fluid Technology

Version Apr 2012

Who is HALMA ?



HALMA: We protect lives and improve quality of life for people worldwide by

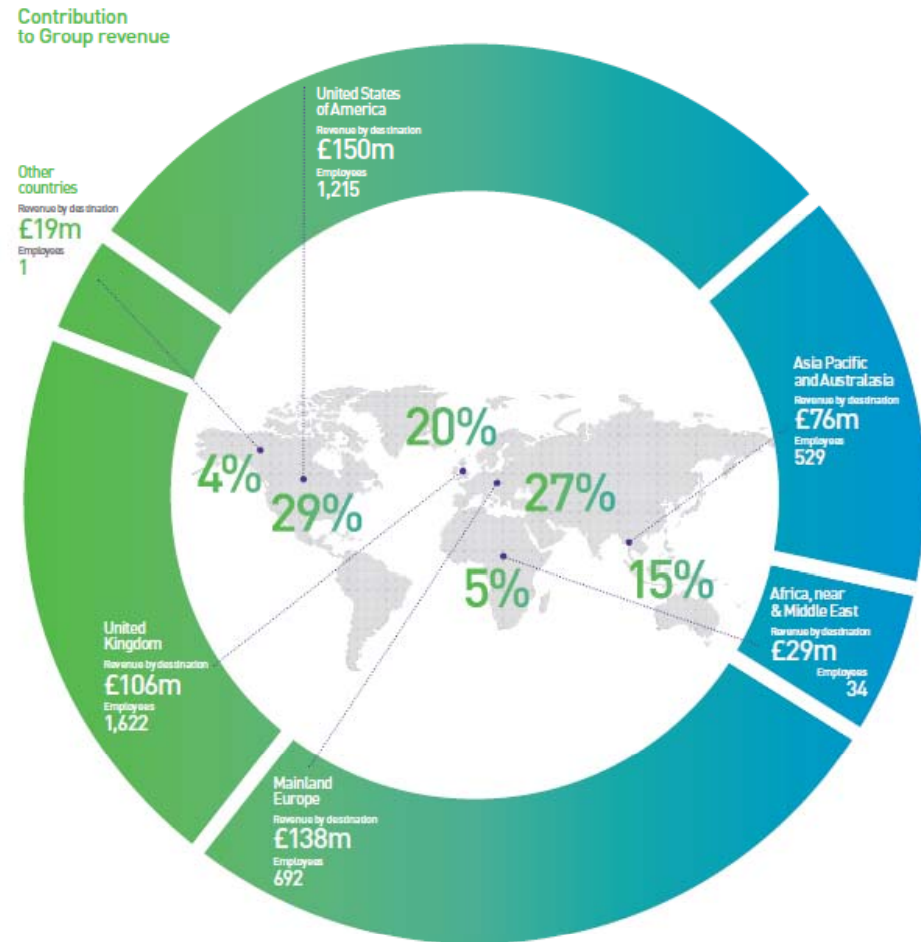
- Innovating in market leading products
 - making our customers safer, more competitive and more profitable
- Investing in and developing businesses
 - where people create innovative products
 - with demand-driven and global markets

HALMA: Over 100 years of history

- Founded in 1895; originally in tea industry
- Transformed in 1972 to current structure
- Headquartered near London
- 40 businesses operating globally
- Over £500M revenue in FY'11
- Over £1.5B market capitalization
- Over 4,000 employees

HALMA: A global company

- We operate in **23** countries in Europe, USA and Asia
- We sell to customers in over **150** countries



HALMA: Health & Analysis

Water



Photonics



Health
Optics



Fluid
Technology



HALMA China

- 5 Rep offices
Shanghai, Beijing, Guangzhou, Chengdu, Shenyang
- 10 Manufacturing facilities
- About 400 employees
- Winner of 2010 Innovation award in China



HALMA Fluid Technology

Scientific Analysis, Environmental, Fuel Cell and Medical Diagnostics

- Pumps
- Probes
- Valves
- Connectors
- Tubing
- Mass Flow Meters
- Mass Flow Controllers
- Gas Conditioning Systems



HALMA Fluid Technology

5 subsidiary companies, all headquartered in USA

- PERMA PURE
- DIBA INDUSTRIES
- BIO-CHEM FLUIDICS
- ALICAT SCIENTIFIC
- ACCUDYNAMICS



Active markets include:

- Biohazard detection
- Biotechnology
- Chromatography (and other scientific analysis)
- Clinical diagnostics (In-Vitro Diagnostics)
- Environmental monitoring
- Fuel cell technology
- Materials analysis
- Medical equipment (Medical device)
- Quality assurance
- Vacuum coating

PERMA PURE



- **Products**

- MD/PD/ME® Dryers
- MH/FC® Humidifiers
- Filters, probes, coalescers, scrubbers, Baldwin® and GASS® series sample conditioning systems

- **Markets**

- Environmental
- Industrial process control
- Scientific and research
- Fuel cell
- Medical

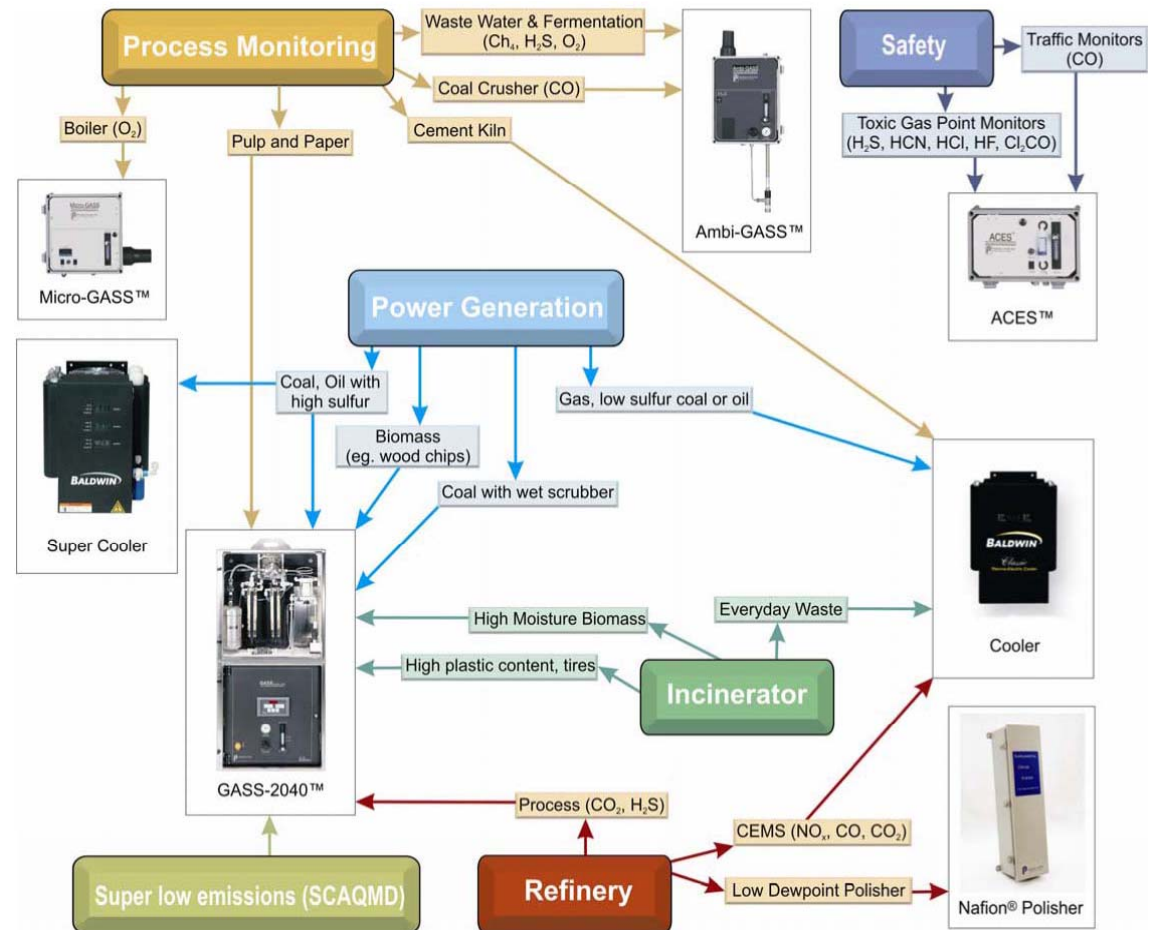


PERMA PURE



● Strengths

- Superior technical solution
- Customized OEM designs
- Fully vertically integrated
- Strong position in diverse markets through multiple channels and deep experience



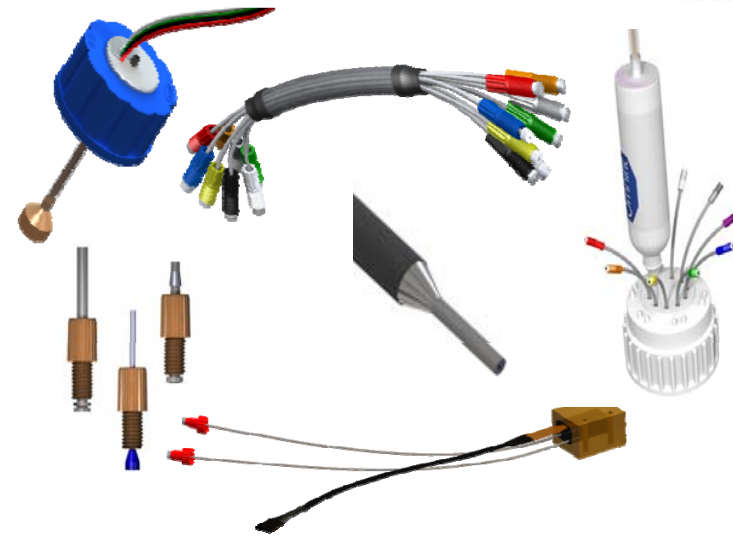
Diba Industries

● Products

- Probes
- Tubing assemblies
- Fitting systems/Fluid heaters/Level sensors/Bottle cap assemblies
- Chromatography Columns

● Markets

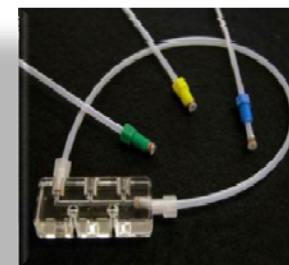
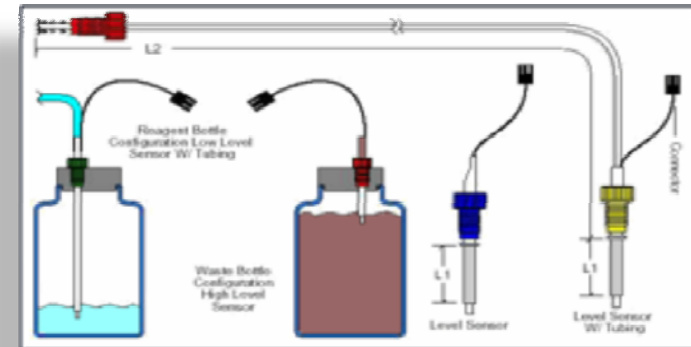
- In-Vitro Diagnostics
- Scientific analysis
- Medical device
- Industrial/General



Diba Industries

- **Commercial strengths**

- Leader in clinical diagnostics industry (IVD)
- Complete inert fluid transfer sub-assemblies, specialty components, tubing and tubing assemblies
- Point-to-point fluids transfer
- FEP, PFA and PEEK extrusion excellence
- Probe manufacturing expertise
- Omni-fit and Diba-fit product lines
- Click-N-Seal fittings
- Unmatched quality and delivery



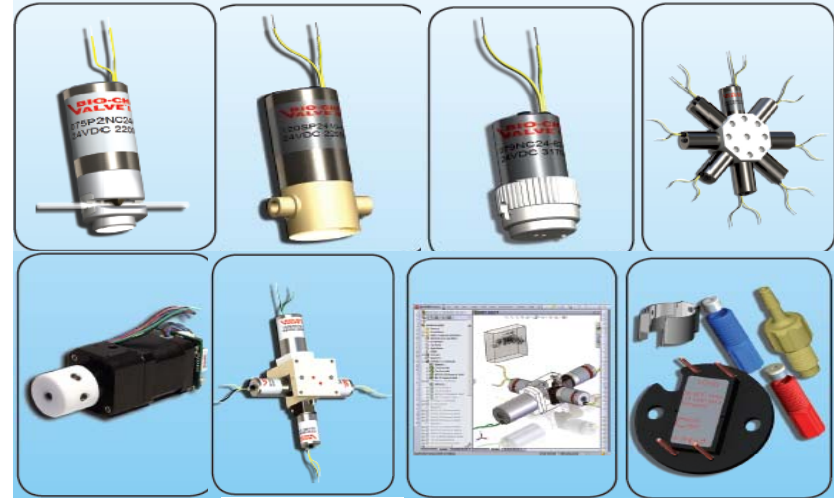
BIO-CHEM FLUIDICS

● Products

- Pinch valves
- Isolation valves
- Micro pumps
- Flow selection valves
- Electric Rotary Valves
- Manifold/ Accessories

● Markets

- In-Vitro Diagnostics
- Scientific analysis
- Medical device
- Industrial/General



BIO-CHEM FLUIDICS

- Commercial strengths
 - A full range of standard and customized products engineered to solve even the most difficult fluid control applications
 - Excellent brand recognition within OEMs
 - Highly reliable products
 - Broad sales channels
 - Broad acceptance in biotech, scientific and medical/clinical markets



ALICAT SCIENTIFIC

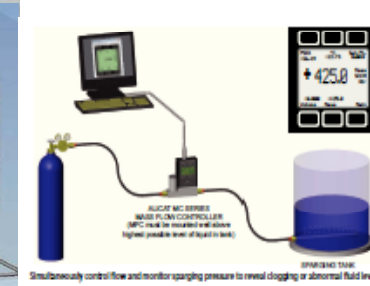
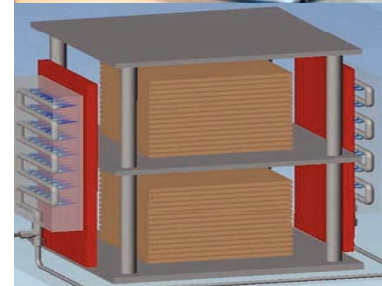


● Products

- Mass flow meters
- Mass flow controllers
- Pressure controllers/gauges

● Markets

- Laboratory/Research
- Semiconductor
- Fiber Optics/Glass
- Fuel Cells
- Furnaces
- Industrial/General

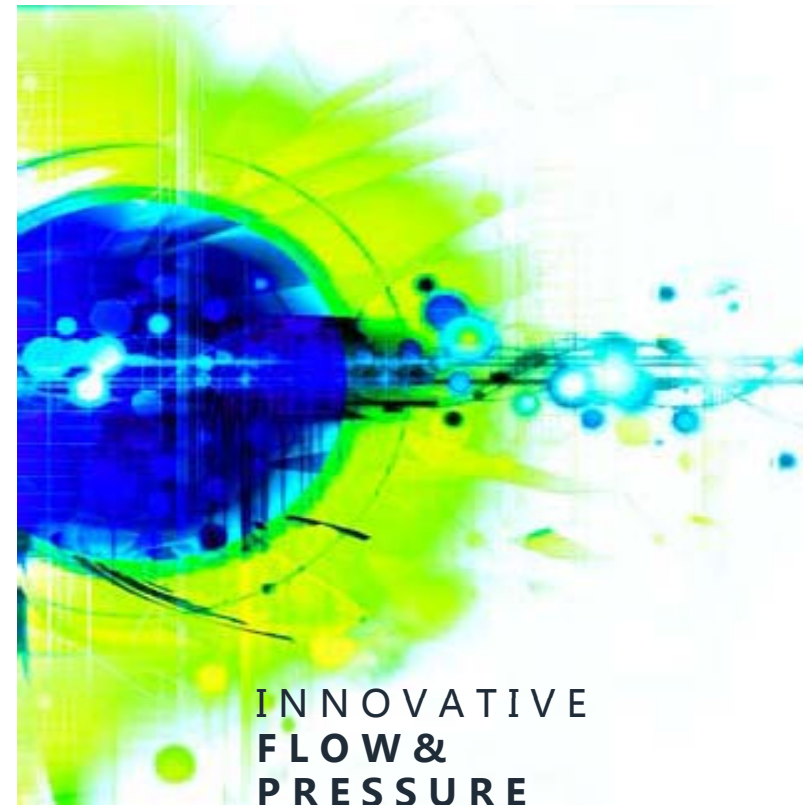


Simultaneously control flow and monitor sparging pressure to reveal clogging or abnormal fluid levels.

ALICAT SCIENTIFIC



- Commercial strengths
 - Differential pressure sensor technology
 - 100 times faster response time than differential temperature methods
 - Wide range of products
 - Display and extensive controls on all models
 - Unmatched quality and delivery



INNOVATIVE
FLOW &
PRESSURE
SOLUTIONS

Providing the perfect
solution for the most
demanding fluid
handling applications

HALMA
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Contact us

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