

# Intelligent Flow Management

Valves  
Actuators  
Control panels  
Filters  
Mounting Kits  
Instrumentation  
Expansion Joints



**Heap &  
Partners Ltd**

Fluid control engineers since 1866

# Introduction

Heap & Partners design, manufacture and distribute a comprehensive range of valves and ancillary equipment.

With Power & Process, Life Sciences and Oil & Gas divisions, we represent market leading manufacturers of some of the very best flow control products available and offer application engineering support to all our customers providing them with an unbiased valve and instrumentation recommendation. In addition we have our own Design and R&D departments enabling us to offer bespoke design solutions to resolve specific customer problems.

## Industries

We supply customers in the Oil & Gas, Chemical, Petrochemical, Pharmaceutical, Power & Utilities, Nuclear, and Life Science industries with control and safety flow management equipment.

## Quality Assurance

We hold the highest quality approval, ISO 9001:2008 audited and approved by Lloyds Register of Quality Assurance. We also hold PED approval for the modification and assembly of valves, and PMI capability.

## Manufacturing

In addition to distribution, we design and manufacture our own range of high pressure ball valves under the brand name Phase, as well as spindle extensions, actuator mounting kits and brackets, switchboxes, control panels and condensate return sets. Prior to despatch, all our valves are assembled, tested and calibrated to meet specific process conditions.

## Export

Our Export department has been shipping goods all over the world for more than 140 years. In the last 5 years alone, we have supplied equipment to over 80 different countries.



## Associations

In addition to our LRQA approval, we are also members of the British Valve & Actuator Association (BVAA) and are registered with FPAL and Achilles.

## The 3Ps initiative

The 3Ps are People, Planet, and Profit. This three pronged initiative covers Profitable growth, minimising our impact on the Planet and helping local and overseas People with our radical volunteering program.

We believe that by widening our focus from a single P (Profit) to the 3Ps, the whole company will benefit, including the bottom line.



Welcome to



**Heap &  
Partners Ltd**  
Intelligent Flow Management





### Plenty Filters

Product Range : Simplex, duplex, self cleaning, back flushing  
 Size Range : 25mm - 900mm  
 Body : Cast iron, carbon steel, stainless steel  
 Ends : Flanged, screwed  
 Filtration : 1 - 3000 micron



### Kinetrol Actuators

Product Range : Vane type pneumatic actuator  
 Material : Zinc alloy, stove enamel finish  
 Operation : Double acting, spring return, electrohydraulic  
 Ancillaries : Switchbox, positioner, solenoid, gearbox override



### Hytork Actuators

Product Range : Rack and pinion type pneumatic actuator  
 Material : Aluminium alloy, two pack epoxy finish  
 Operation : Double acting, spring return  
 Ancillaries : Switchbox, positioner, solenoid, gearbox override



### Phase Ball Valves

Product Range : Full or reduced bore side entry, soft & metal seated ball valves  
 Size Range : 50mm - 300mm  
 Body : Carbon steel, stainless steel, special alloys  
 Temperature : - 100 Deg C to + 250 Deg C, other applications on request  
 Ends : Flanged, hubbed, butt weld end  
 Operation : Lever, gearbox, actuated



### Leser Relief Valves

Product Range : right angle safety relief valves  
 Size Range : 10mm - 400mm  
 Body : Carbon steel, stainless steel, special alloys  
 Ends : Flanged, screwed, socket weld, butt weld, triclamp  
 Applications : Chemical, petrochemical, oil & gas, pharmaceutical, food & beverage



### Rhodes Sight Glasses

Product Range : Sight glasses and flow indicators  
 Size Range : 15mm - 200mm  
 Body : Cast iron, carbon steel, stainless steel, gunmetal  
 Linings : Glass, rubber, PFA  
 Ends : Flanged, screwed, weld



### Parker Instrumentation Valves

Product Range : Ball, needle, check, relief, in-line filters  
 Size range : 1/8" - 2" (imperial), 3mm - 25mm (metric)  
 Material : Stainless steel, special alloys (on request)



### Parker Instrumentation Fittings

Product Range : Imperial and metric A-Lok and CPI fittings  
 Size range : 1/16" - 2" (imperial), 3mm - 25mm (metric)  
 Material : Stainless steel, special alloys (on request)



### Parker Manifolds

Product Range : 2, 3 and 5 way manifolds  
 Size range : 1/8" - 2" (imperial), 3mm - 25mm (metric)  
 Material : Stainless steel, special alloys (on request)



### Parker Flanged Product

Product Range : Double Block & Bleed  
 Size range : 1/2" - 2" (imperial), 15mm - 50mm (metric)  
 Material : Stainless steel, special alloys (on request)



### Parker/Balston Filtration

Product Range : Filter housings and elements  
 Size range : 1/8" - 2" (imperial only)  
 Material : Stainless steel, various plastics, teflon



### Parker/Lucifer Solenoids

Product Range : 2, 3 and 4 way, direct pipe mount and namur  
 Material : Stainless steel, brass, aluminium, synthetic  
 Classification : Cenelec and Atex hazardous areas Eex ia, Eex d, Eex m



### Parker/Balston Nitrogen Generators

Principal : Production of nitrogen at very high concentrations from existing compressed air supply using membrane technology.  
 Applications : Purpose built machines for tyre inflation (truck & car). Units for bulk production of nitrogen for applications requiring large volumes ie. Tank blanketing and modified air packaging.



### Wade Instrumentation Fittings

Product Range : Imperial and metric compression fittings  
 Size range : 1/8" - 1" (imperial), 3mm - 25mm (metric)  
 Material : Brass



### Instrumentation Tube

Product Range : Imperial and metric tube  
 Size range : 1/16" - 2" (imperial), 3mm - 25mm (metric)  
 Material : Copper, nylon, stainless steel, special alloys (on request)

# Product applications



Actuators,  
Switchboxes  
& Positioners



Ball valves



Butterfly valves



Check valves



Condensate  
Return sets



Control panels



Control valves  
& intelligent  
positioners



Diaphragm

## Process & Power

Acid	◆	◆	◆		◆	◆	◆	◆
Automatic fire protection	◆	◆	◆	◆		◆		◆
Chemical	◆	◆	◆			◆	◆	◆
Chlorine	◆	◆	◆			◆	◆	◆
Desalination	◆	◆	◆	◆	◆	◆	◆	◆
Distilling crude tar	◆	◆	◆			◆	◆	◆
Fertiliser	◆	◆	◆			◆	◆	◆
High volume assembly plant	◆	◆	◆	◆		◆		◆
Hot Oil	◆			◆		◆		
Hydro	◆		◆			◆		◆
Metal manufacturing	◆	◆	◆			◆		◆
Mineral mining & processing	◆	◆	◆			◆		◆
Pulp & Paper	◆	◆	◆	◆		◆	◆	◆
Nuclear	◆	◆	◆	◆	◆	◆	◆	◆
Road tankers	◆	◆	◆			◆		◆
Thermal	◆	◆	◆		◆	◆	◆	◆
Water treatment	◆	◆	◆	◆		◆	◆	◆

## Oil & Gas

Oil & Gas Production	◆	◆	◆	◆	◆	◆	◆	◆
Oil Refining	◆	◆	◆	◆	◆	◆	◆	◆
Petrochemical	◆	◆	◆	◆	◆	◆	◆	◆

## Life sciences

Pharmaceutical	◆	◆	◆	◆	◆	◆	◆	◆
Food & Beverage	◆	◆	◆	◆	◆	◆		◆
Biotechnology	◆	◆	◆	◆	◆	◆		◆
Sugar production	◆	◆	◆			◆	◆	◆

# Services



## Stock Management

We provide an on-site stock management service tailored to meet individual customer requirements. Utilising some of the best forecasting software available and analysing a customer's annual usage, we can provide recommendations and streamline stock profiles to ensure their stock levels are effectively and correctly managed. By reducing dead stock and ensuring the correct levels of healthy stock, a client can significantly improve the efficiency of their plant while reducing costs.



## Clean Build/Special Preparation

Our clean build and test facilities enable us to offer a range of 'clean built' valves suitable for specialist processes including Hydrogen Peroxide, Chlorine, Fluorine and Oxygen service.

The valves are produced in accordance with a predetermined production procedure to meet customers' and legislative requirements.

## Project Management

When a client sanctions a project, we offer our project management team to co-ordinate all valve purchases, manage the project and hold the equipment in a quarantined area, ready for installation.

## Training

Excellent conference room facilities are available at our headquarters in Loughborough or at our Teesside facility. We offer hands on valve maintenance, repair, retesting training through our sizing and selection.





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As a new build, we can provide a complete service. We can supply and install all the equipment for the entire project in a dedicated facility for call-off to site.

Our facilities are available from our Birkenhead, London and Manchester sites. We offer training from basic to advanced valve



### Valve Actuation Packages

We can fit a wide range of pneumatic, electric, electro-hydraulic or hydraulic actuators and intelligent positioners (4-20ma, Hart, fieldbus etc.) to any make of valve. H&P can handle the sourcing of valves, actuators and instrumentation to our customers' specifications and assemble, fully test and calibrate in our workshops.

### Refurbishment

Valve overhaul and upgrade facilities are available either on site or at our workshops. Services include fault finding and diagnosis, instrumentation upgrading, valve strip-down cleaning, re-machining, assembly, retesting, calibration and painting.



### Valve Customisation

Our valve customisation service enables us to offer a range of actuated and manual customised valves. We can fit a variety of pneumatic, electric and hydraulic actuators to any make of valve for either on/off or modulating control duties and can provide customer-specific ESD valves. Applications include: Valve safety interlocking, Extended spindles to clear lagging or low temperature applications, Clean build for special processes, Special paint finishes, Special engineering modifications.

Heap & Partners are one of the UK's leading suppliers of process valves and ancillary equipment. As the official distributor for these manufacturers, we provide unrivalled product knowledge to all our customers.



### Flexible Couplings

Product Range : Rubber and metallic expansion joints  
 Size Range : 15mm - 500mm  
 Materials : EPDM, nitrile, butyl, neoprene, hypalon, viton, stainless steel  
 Ends : Flanged, screwed, socket weld



### Mounting Kits

Product Range : Valve/actuator mounting kit  
 Material : Mild steel, stainless steel  
 Validation : We utilise Finite Element Analysis to prove our designs. Only by stress analysing the designs can we ensure a kit is fit for purpose.



### Control Panels

Product Range : Design and manufacturing service for control panels  
 Type : Pneumatic, electrical, hydraulic, electropneumatic, valve control boxes, ESD systems  
 Design : In-house, customer specific



### Condensate Return Sets

Product Range : Condensate pump receiver packages  
 Design : In-house, customer specific  
 Material : Mild steel, stainless steel, copper



### Avid Switchbox

Product Range : ° turn and linear limit switchbox  
 Enclosure : PPS  
 Rating : IP67  
 Features : Multiple switch options, 100 hour salt spray tested, internal solenoid, field network cards



### Saunders Ball Valves

Product Range : 'M' type 3 piece full bore design  
 Size Range : 15mm - 100mm  
 Body : Cast iron, stainless steel,  
 Ball : Cast iron, nylon coated, stainless steel  
 Seats & Seals : Nitrile, PTFE  
 Ends : Flanged, screwed  
 Operation : Handwheel, actuated



### Saunders Industrial Diaphragm Valves

Product Range : 'A' type weir pattern and 'KB' straight through pattern  
 Size Range : 8mm - 350mm  
 Body : Cast iron, SG iron, cast steel, stainless steel, copper alloys  
 Linings : Natural, butyl, hard ebonite & polychloroprene rubber, glass, polypropylene, ETFE, PFA , PTFE  
 Diaphragm : Various elastomers and advanced PTFE faced  
 Ends : Flanged, screwed  
 Operation : Handwheel, actuated



### Saunders HC4 Diaphragm Valves & Bio Blocks

Product Range : 'HC4' type hygienic standard and customised designs  
 Size Range : 8mm - 150mm  
 Body : Stainless steel 316L, special alloys (on request)  
 Diaphragm : Various elastomers and advanced PTFE faced (FDA complaint and fully traceable)  
 Surface Finish : Range of mechanical polished and electropolished  
 Ends : Weld, triclamp, mechanical  
 Operation : Handwheel, actuated



### Hindle/KTM Ball Valves

Product Range : Full and reduced bore antistatic, firesafe design  
 Size Range : 15mm - 400mm  
 Body : Carbon steel, stainless steel, special alloys (on request)  
 Seats : Virgin, glass filled and carbon filled PTFE, Peek  
 Ends : Flanged  
 Operation : Lever, gearbox, actuated



### Crane RS/Flowseal/Hobbs/Keystone/Vannessa/ Butterfly Valves

Product Range : Resilient seated, high performance and triple offset designs  
 Size Range : 40mm - 1200mm  
 Body : Cast iron, SG iron, carbon steel, stainless steel, aluminium bronze  
 Disc : Stainless steel, carbon steel, nylon coated, PTFE, Hastelloy  
 Seats : EPDM, nitrile, viton, PTFE, metal  
 Ends : Wafer, fully lugged, double flanged  
 Operation : Lever, gearbox, actuated



### WT Armatur Bellows Sealed Globe Valves

Product Range : Straight and 'Y' pattern bellows sealed globe valve  
 Size Range : 15mm - 400mm  
 Body : Carbon steel, stainless steel, special alloys (on request)  
 Ends : Flanged, butt weld  
 Operation : Handwheel, actuated



### Fisher Globe & Rotary Control Valves

Product Range : Two and three way control valves  
 Size Range : 15mm - 300mm  
 Body : Carbon steel, stainless steel, low carbon steel, special alloys (on request)  
 Trim : Contoured, anti-cavitation, low noise  
 Ends : Flanged, screwed  
 Operation : Pneumatic & electric actuated  
 Instrumentation : Intelligent positioners, regulators, solenoid valves

# Engineering services

## Experience & Expertise

Established in 1866, we have continually evolved and improved our service to our clients, achieving a high degree of trust and reliability that forms the basis of the long-term relationships we are proud to maintain.

We have built up an enviable track record within the industry, with our current staff having between them a staggering 737 years experience in the fluid handling industry. This unrivalled experience and expertise in supply and ongoing support ensures that we can specify the correct equipment for your process, saving you time and money.

## Bespoke solutions when you need them

In addition to being a major distributor, we provide design and consultancy services on flow related issues all over the world. Our Research & Development department provides bespoke solutions, backed up by our extensive in-house manufacturing and testing capabilities.



## Delivery

When you order a product, you can be confident that it will be delivered on time to the correct location. With over £2 million of stock encompassing over 18,000 line items, we pride ourselves on our ability to deliver on time to any location around the world.

## After Sales Service

Heap & Partners rapid response service provides prompt resolution when you need it, keeping plant downtime to an absolute minimum.

## Set Up & Testing

Set-up and testing services are provided to ensure that when it comes to on-site installation, you are safe in the knowledge that the equipment we have supplied will work in your environment.

Our test facilities can accommodate valve sizes 1/2" up to 24" with pressures from vacuum and low pressure to high pressures of 15,000 psi in our custom-made explosion-proof bays with remote monitoring from anywhere in the world. Clients are provided with login credentials giving them remote control of four CCTV cameras that deliver real-time video as well as information from the Data Logger displaying Hydrostatic Pressure, Low Air Test Pressure, Temperature, and Seat Leakage rate.

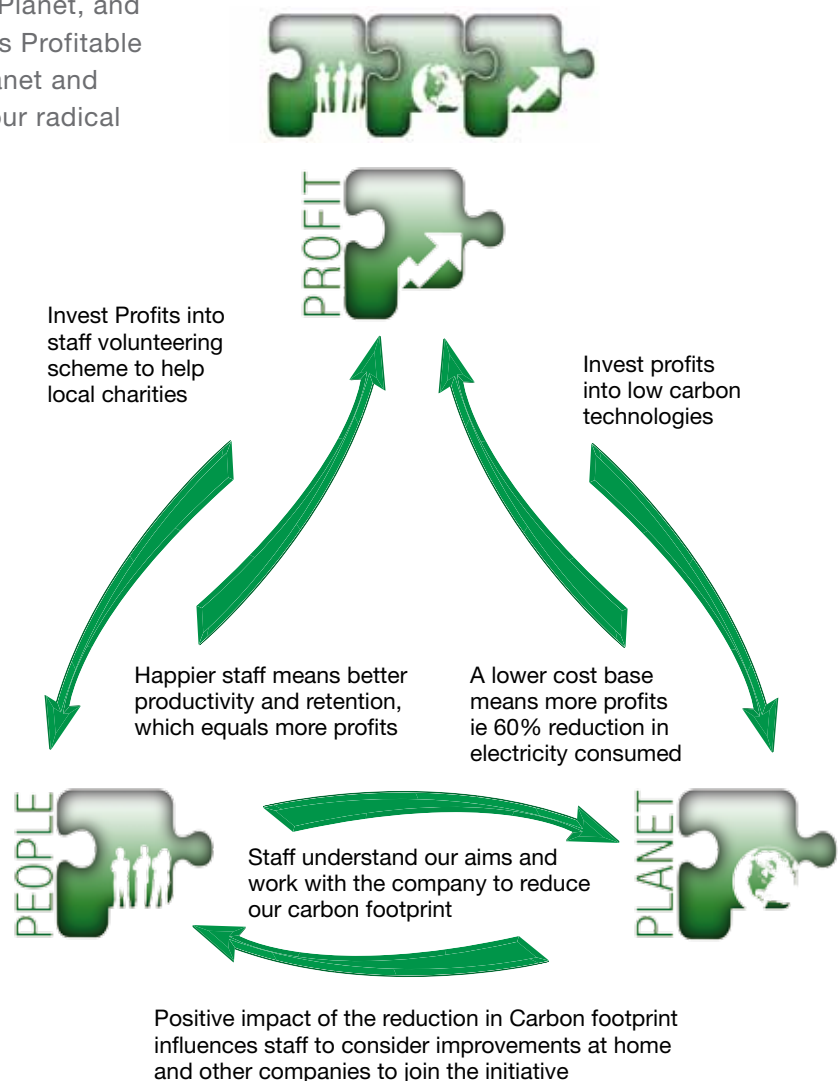
## Documentation

Heap & Partners provide comprehensive documentation to ensure that you get the best performance from your installed equipment. In our experience, clear and detailed instructions minimise the risk of any issues occurring with the installed equipment and saves time should any breakdown occur.

# Heap & Partners initiative for a greener world

We believe that profitable growth is vital; not to simply fund business as usual but to enable it to do its part in solving some of the problems the world faces.

Heap & Partners are to present our 3Ps Program. The 3Ps take into consideration People, Planet, and Profit. This three pronged initiative covers Profitable growth, minimising our impact on the Planet and helping local and overseas People with our radical volunteering program.



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