

Durapipe



DURAPIPE BUILDING SERVICES AND INDUSTRIAL SOLUTIONS



For your nearest branch, call freephone 0800 783 7680, visit www.ashworth.eu.com or email alplastics@ashworth.eu.com



SUPPLYING MECHANICAL SERVICES
AND PROCESS CONTRACTORS





Durapipe UK has been at the forefront of thermoplastic pipework technology for over half a century.

The Durapipe ranges of pipes, fittings and valves for pressure and non-pressure systems are specifically designed to fulfill the requirements of modern buildings.

Page 4 – Chilled and Boosted Cold Water



superFLO

Specialist system for chilled water/air conditioning and boosted cold water

Page 7 -Safe Chemical **Drainage**





Purpose designed for safe

chemical storage

Page 5 - Hot and Cold Water





Quick and easy installations of hot and cold water

Page 8 - Sound Attenuated Drainage



friaþhon

Sound attenuated drainage system with no need for lagging

Page 9 - Impact Resistant **Drainage**





Specialist HDPE drainage with high impact resistance

Page - 10 Emergency Fuel Supply





Durarpipe PLX is a range of fusion-welded pipework for the safe transfer of fuels

Page 6 - Heating Pipework





PP-R pipework system for low temperature hot water

superFLO

CHILLED AND BOOSTED COLD WATER

Durapipe superFLO offers tremendous advantages for chilled water/air conditioning or boosted cold water services in buildings.







When considering environmental control systems, or more specifically, the pipework requirements for chilled or boosted cold water applications. Durapipe superFLO provides the perfect solution.

Durapipe superFLO is lightweight and remains extremely tough and durable even at temperatures as low as -40°C.

The complete system, which incorporates pipes, fittings and valves, offers a 50-year design life as well as numerous benefits that alternative pipework materials cannot provide. These include reduced installation costs via a fast solvent-weld jointing procedure, low maintenance costs due to its limescale and corrosion resistance properties as well as being extremely lightweight making the product much easier to handle on-site.

Durapipe superFLO is available in sizes ranging from 16mm to 315mm.

KEY PRODUCT INFO

- Size Range 16mm to 315mm
- Temperature Rating -40°C to 70°C
- Pressure Rating PN10

KEY PRODUCT FEATURES

- Lightweight
- Corrosion and limescale resistant
- Impact resistant
- Fast, simple jointing
- Ductile down to -40°C
- Reduced installation costs
- 50-year design life
- White solvent cement for visual indication

TYPICAL APPLICATIONS

All building types for:

- Boosted Cold Water

- Chilled Water/Air Conditioning

friatherm

HOT AND COLD WATER

Friatherm is a purpose designed CPVC plastic pipework system that provides quicker and easier installations for hot & cold water applications and is a cost effective alternative to copper.







Speed of installation coupled with long-term performance benefits and no need for a power source or any 'hot works', means that Friatherm can offer significant cost savings over copper and other metal pipework systems. Furthermore, Friatherm offers a 50 year working life and due to the high grade of plastic material the system is completely limescale free and corrosion resistant.

KEY PRODUCT INFO

- Size Range 16mm to 160mm

- Temperature Rating 0° to 85°C
- Pressure Rating PN25 up to 63mm, and PN16 75mm to 160mm

KEY PRODUCT FEATURES

- Lightweight
- Limescale and corrosion free
- · Simple, one step jointing
- No power or hot works are required
- Fully WRAS approved
- Minimum 50 years' service life

TYPICAL APPLICATIONS

Hot and cold water systems in:

- Hospitals
- Schools
- Commercial buildings
- Hotels and Residential buildings
- Sports stadiums

HEATING PIPEWORK

A cost effective plastic water pipe system for low temperature hot water (LTHW) and hot & cold water services. Wefa is a complete range of pipe, fittings & valves with excellent corrosion resistance properties making it an ideal alternative to copper tube and steel.





Wefa is a PP-R based socket fusion pipework system that is quick and easy to install making it ideal for a range of plumbing and heating applications. Wefa is available in two different types of pipe:

- PP-R (Standard)
- Fibre Pipe

So next time you're looking to replace old leaky copper pipes, Wefa is the perfect water pipe solution.

KEY PRODUCT INFO

- Size Range 16mm to 160mm
- Pressure Rating PN10/PN20
- Temperature Ratina 0°C to 90°C

KEY PRODUCT FEATURES

- Two different types of pipe
- Easy to install
- Wide temperature range
- Alternative to steel or copper

TYPICAL APPLICATIONS

- Low temperature water (Heating)
- Hot & cold water





SAFE CHEMICAL DRAINAGE

Vulcathene is a purpose-designed chemical resistant plumbing system that has been specified and installed in the laboratories of schools, universities, hospitals and research facilities worldwide for over 50 years.







Tried, tested and proven, Vulcathene is the only chemical drainage system to have withstood the test of time in the most demanding of laboratory applications.

Two easy jointing methods, Mechanical for demountable joints and Enfusion (electrofusion) for welded joints, provide total versatility for designers and installers of chemical waste systems.

KEY PRODUCT INFO

- Size Range 38mm to 152mm
- Temperature Rating -20°C to 100°C (only intermittent at 100°C)
- Anti-siphon traps
- Swept fittings

KEY PRODUCT FEATURES

- Purpose designed for chemical drainage
- Mechanical or Electrofusion jointing methods
- Fully BBA Approved

TYPICAL APPLICATIONS

Laboratories in:

- Schools
- Universities and Colleges
- Hospitals and Clinics
- Pharmaceutical companies
- Research organisations

SOUND ATTENUATED DRAINAGE

A purpose-designed sound reducing drainage system that offers outstanding sound insulation properties compared with traditional cast iron or lagged single wall plastic drainage systems.







Friaphon is constructed with dual layer technology and offers exceptional sound reduction properties from noises emitted by sanitary installations in buildings.

Lower material costs coupled with speed of installation and no need for lagging, means Friaphon offers significant cost savings over cast iron and single wall plastic drainage systems.

KEY PRODUCT INFORMATION

- Size Range 110mm and 160mm
- Temperature Rating 95°C (Short term)

KEY PRODUCT FEATURES

- Superb sound insulation
- Lower cost alternative to cast iron
- No lagging required
- Lower cost alternative to lagged plastic
- Push fit assembly
- High impact and temperature

TYPICAL APPLICATIONS

Sound attenuated drainage systems in:

- Luxury apartments
- Hotels
- Libraries
- Hospitals
- Public buildings
- Restaurants

akatherm

IMPACT RESISTANT DRAINAGE

Akatherm HDPE is a plastic drainage system that is manufactured to meet high standards of durability and reliability.







The combination of the excellent material properties of HDPE with homogenous welded joints, give the Akatherm drainage system high impact resistance properties and a wide temperature range.

Akatherm HDPE is ideal for soil and rainwater drainage in many different building types.

KEY PRODUCT INFO

- Size Range 40mm to 315mm
- Flectrofusion or butt weld

KEY PRODUCT FEATURES

- Impact resistant

TYPICAL APPLICATIONS

- Car parks
- Hotels
- Libraries
- Hospitals
- Public buildings
- Apartments

- Lightweight
- Weather resistant
- Welded joints
- Suitable for pre-fabrication

PIPEWORK FOR FUEL

Durapipe PLX is a complete range of dedicated fusion-welded pipework systems for the safe transfer of fuels. Suitable for use with leaded, unleaded petroleum, including ethanol rich alternative fuels (E85), diesel, bio-diesel and fuel oils.







Durapipe PLX is used in buildings such as hospitals, data centres, prisons and banks where there is a need for uninterrupted power supply (UPS) and/or emergency power.

The Durapipe PLX range represents a major innovation in pipework technology as it offers the ultimate in environmental protection with maximum protection against permeation and leak free joints.

Durapipe PLX is fully compliant with the Institute of Petroleum Performance Specification — Issue 2 for under ground pipework systems.

KEY PRODUCT INFORMATION

- 10 bar pressure rating
- Secondary containment system
- 30-year design life

- Size Range 32mm to 315mm
- Electrofusion System

KEY PRODUCT FEATURES

- Suitable for pressure and vacuum applications
- Resists fuel permeation
- Corrosion resistant
- Protects the environment
- Easy to install

TYPICAL APPLICATIONS

- Uninterrupted Power Supply (UPS)
- Emergency Power Generation
- Oil fired equipment
- Commercial and public transport refuelling

BUILDING SERVICES SOLUTIONS

Please use the table below to establish which product is most suited to your application.



INDUSTRIAL RANGE

Durapipe UK pipework systems have been used in a variety of industrial applications for over 50 years. For the conveyance of different media from potable water to aggressive acids, Durapipe systems perform in the most demanding environments.



Durapipe ABS

Page 14 - Chilled and Cold Water

Complete system for chilled and cold water



Durapipe PVC-U

Page 15 - Industrial Fluid Handling

Complete system for industrial fluid handling applications



Durapipe Corzan

Page 16 - Hot Corrosive Fluids

Complete C-PVC system for industrial applications



Durapipe Polypropylene

Page 17 - Industrial Processing

Complete pipework system for aggressive materials



Durapipe Air-Line Xtra

Page 18 - Compressed Air Distribution

Compressed air distribution system



PLX

Page 19 - Safe Fuel Transfer

Pipework system for safe fuel transfer



Durapipe Duracool

Page 20 — Pre-Insulated Pipework

Pre-insulated pipework for chilled water



Durapipe FLS

Page 21 - Flow Control Solutions

Equipment for flow control solutions



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Page 22 - Manual and Actuated Valves

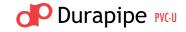
A complete range of manual and actuated valves



product is most suitable to your application

| Size and jointing information | Pipe and fittings for solvent cement jointing manufactured in metric sizes from 16mm to 315mm to DDIR & ISO standards and in inch sizes from 3/8" to 12" British Standard. Threaded fittings also available | Pipe and fittings for solvent cement jointing manufactured in sizes from 16mm to 160mm | Pipe and socket-weld fittings manufactured in inch and metric sizes | Pipe and fittings for solvent welding manufactured in metric sizes 12mm to 211 5mm to 211 and 150 standards and 3/8" to 12" British Standards. Threaded fittings also available |
|--|--|---|--|---|
| Unsuitable for following uses | Pressure applications over 70°C, strong bleaches aromatic solvents | Aromatic solvents Temperatures below +5°C | Strong oxidising acids and halogens | Aromatic solvents temperatures below +5°C temperatures over 60°C |
| Typical applications | Chilled water, low temperature brine, potable water, air conditioning, process water, foodstuffs | High temperature, aggressive substances, highly corresive conditions, chemical processing and many industrial applications | Hot chemical applications | Portable water, general purpose water, waste water etc. |
| Chemical resistance and performance data | Moderately strong mineral acids Causife and ammoniacal solutions Most inorganic salt solutions Some delergents Temperature range -40°C to +70°C | Very strong mineral acids Causit solutions Most inorganic salt solutions Some detergents Temperature range +5°C to +100°C | Strong mineral acids Causite and ammoniacal solutions Inorganic salt solutions Many organics Detergents Temperature range OC to +100°C | Strong mineral acids Causitic and ammoniacal solutions Some organics Most detergents Temperature range +5°C to 60°C |
| Material | Durapipe ABS (Acrylonitrite Butadiene Styrene) | Durapipe Corzan (PVC-C) | Durapipe Polypropylene (PP) | Durapipe PVC-U (Unplasticised Polyvinyl Chloride) |





CHILLED AND COLD WATER

Durapipe ABS for low temperature fluid transportation.

Durapipe ABS combines corrosion resistance, toughness and economic benefits to provide tremendous advantages for low temperature fluid transportation.





ABS is a solvent welded, fully matched pipework system incorporating pipe, fittings and valves that is available in both imperial and metric sizes.

ABS provides a wide temperature range and the system remains extremely ductile even at temperatures as low as -40°C.

Furthermore, ABS is extremely lightweight and is much easier to handle on-site than traditional materials especially during installation which can significantly reduce both time and cost, as well as being fully WRAS approved.

KEY PRODUCT INFORMATION

- Size Range 16mm to 315mm
- Pressure Rating (Metric) PN10 -16 to 250mm. PN8 - 315mm
- Temperature Rating -40°C to 70°C

 Pressure Rating — (Imperial) Up to 4" Class E. Up to 8" Class C. 10" & 12" Class B

KEY PRODUCT FEATURES

Lightweight

CHILLED AND COLD WATER

- Easy to install
- Wide temperature range
- Tough and durable
- Corrosion resistant

TYPICAL APPLICATIONS

- Chilled water
- Boosted cold water
- Potable water
- Low temperature cooling
- De-mineralised water
- Vacuum systems
- Waste water

INDUSTRIAL FLUID HANDLING

Durapipe PVC-U — for process chemicals and industrial fluid handling. Our PVC-U pipe and fittings provide excellent chemical resistance making it ideal for various industrial applications.





PVC-U allows the safe transportation of many acids, alkalis and chemical concentrates without fear of corrosion and environmental pollution.

Durapipe PVC-U is a solvent welded, fully matched pipework system incorporating pipe, fittings and valves that is available in both imperial and metric sizes.

PVC-U is lightweight and is extremely easy to install which can save both time and money on any given project when compared to other, more traditional pipework materials.

Furthermore, Durapipe PVC-U is fully WRAS approved and it also meets the requirements of other internationally recognised standards and approvals.

KEY PRODUCT INFORMATION

- Size Range 12mm to 315mm (Metric) 3/8" to 12" (Imperial)
- Pressure Rating (Metric) Pipe - 20mm to 160mm PN16 Fittings - 12mm to 225mm PN16, 250mm to 315mm PN10
- Temperature Rating: 5° to 60°C
- Pressure Rating (Imperial) 1/2" to 6" pipe Class E, 3/8" to 12" fittings Class E

KEY PRODUCT FEATURES

- Lightweight
- Easy to install
- Corrosion resistant

TYPICAL APPLICATIONS

- Acids & Alkalis
- Fffluents
- Potable water
- Chemical processing
- Effluent Treatment

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HOT CORROSIVE FLUIDS

Durapipe Corzan is a C-PVC plastic pipework system for handling hot, corrosive fluids.





Corzan offers excellent performance levels in highly aggressive industrial conditions.

The fully-matched plastic pipe system has the ability to convey hot acids and alkalis under pressure at elevated temperatures.

The smooth surface of Corzan is corrosion resistant which makes it superior to metal pipework alternatives which can become prone to corrosion resulting in process leaks, flow restrictions and ultimately premature system failure.

For a reliable, chemically resistant C-PVC piping system, Durapipe Corzan is the ideal choice.

KEY PRODUCT INFORMATION

- Size Range 16mm to 160mm
- Pressure Rating PN16 (16mm to 110mm), PN10 (160mm)
- Temperature Rating 5° to 95°C

KEY PRODUCT FEATURES

- Excellent chemical resistance
- Lightweight

HOT CORROSIVE FLUIDS

- Wide temperature range
- Easy to install
- High temperature acids & alkalis

TYPICAL APPLICATIONS

- Acids & alkalis
- Demineralised water
- Industrial waste treatment
- Chemical processing
- Soaps, paper & pulps
- Effluents

INDUSTRIAL PROCESSING

Durapipe Polypropylene is specially designed to convey the most hazardous of chemicals at elevated temperatures.





Polypropylene pipe has excellent chemical and abrasion resistance properties making it ideal for a range of industrial pipe supply purposes. Its characteristics are perfectly suited to process applications including pharmaceutical and chemical processing.

Durapipe Polypropylene is either socket fusion, or butt fusion jointed fully matched pipework system incorporating pipe, fittings and valves that are available in metric sizes.

KEY PRODUCT INFORMATION

- Size Range 20mm to 110mm (Socket) 20mm to 40mm (Butt)
- Pressure Rating PN10 (Metric)
- Temperature Rating 0° to 100°C

KEY PRODUCT FEATURES

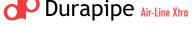
- Lightweight
- Excellent chemical resistance
- Multiple jointing options

TYPICAL APPLICATIONS

- Acids & alkalis
- Chemical processing
- Industrial waste treatment
- Pharmaceuticals
- Effluents

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COMPRESSED AIR DISTRIBUTION

Durapipe Air-Line Xtra is the ideal solution for ensuring that air is kept clean and uncontaminated for use in process and manufacturing industries.





A lightweight, non-corrodible compressed air distribution system, Durapipe Air-Line Xtra is manufactured from a specially formulated blend of ABS and is suitable for continuous operation at 12.5 bar at 20°C.

Boasting a 30-year design life, Durapipe Air-Line Xtra is specifically designed for the conveyance of compressed air, Air-Line Xtra also meets the requirements of the UK Pressure Systems and Transportable **Container Regulations.**

KEY PRODUCT INFORMATION

- Size Range 16mm to 110mm
- Pressure Ratina PN12.5

KEY PRODUCT FEATURES

Lightweight

COMPRESSED AIR DISTRIBUTION

- Easy to install
- Ultra smooth internal bore
- Corrosion resistant

TYPICAL APPLICATIONS

- Compressed air systems
- Pneumatic machinery



SAFE FUEL TRANSFER

Durapipe PLX is a complete range of dedicated fusion-welded pipework systems for the safe transfer of fuels. Suitable for use with leaded, unleaded petroleum, including ethanol rich alternative fuels (E85), diesel, bio-diesel and fuel oils.







PLX is the ideal solution for transportation markets such as rail, aviation, haulage and marine.

The Durapipe PLX range represents a major innovation in pipework technology as it offers the ultimate in environmental protection with maximum protection against permeation and leak free joints.

Durapipe PLX is fully compliant with the Institute of Petroleum Performance Specification — Issue 2 for under ground pipework systems.

KEY PRODUCT INFORMATION

- 10 bar pressure rating
- Secondary containment system
- 30-year design life

- Size Range 32mm to 315mm
- Electrofusion System

KEY PRODUCT FEATURES

- Suitable for pressure and vacuum applications
- Resists fuel permeation
- Corrosion resistant
- Protects the environment
- Easy to install

TYPICAL APPLICATIONS

- Uninterrupted Power Supply (UPS)
- Emergency Power Generation
- Oil fired equipment
- Commercial and public transport refuelling

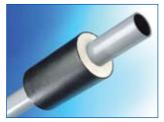
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PRE-INSULATED PIPEWORK



PRE-INSULATED PIPEWORK

Our innovative Duracool pre-insulated ABS pipework system is specially designed to provide reduced installation costs.





Duracool is a complete system of pre-insulated pipe with unique shells for the fittings, insulation is provided by an attractive polyethylene outer casina.

Fitting is quick and easy, eliminating the need for hot works or manual lagging making installation an easy and convenient process.

KEY PRODUCT INFORMATION

- Size Range 20mm to 225mm
- Pressure Rating PN10
- Temperature rating 40°C to 70°C

KEY PRODUCT FEATURES

- Lightweight
- Easy to install
- Cost efficient installation
- Wide temperature range
- Tough and durable

TYPICAL APPLICATIONS

- Chilled water
- Glycol systems
- Brine

FLOW CONTROL SOLUTIONS

Durapipe FLS sensors, monitors and transmitters.

As well as a complete range of fittings, Durapipe FLS products are characterized by quality, through from product development to accurate manufacturing and testing processes.

FlowX3 instruments are developed and produced with the latest technology ensuring high, reliable and long-term performances.





All of the Durapipe FLS products are based around either measuring the velocity of a liquid in a system by Insertion Technology or by using a visual Variable Area Flowmeter.

Installation of the insertion technology typically requires only a small hole in the pipe; the sensor is then fixed perpendicular to the hole and measures the velocity at a certain place in the pipe. Sensors' dimensions are not pipe size specific and are independent from pipe cross section. The calculation to work out average velocity and flow volume is done in the instrument.

To help provide an ever-widening range of solutions for fluid analysis and measurement, Durapipe FLS has recently introduced ChemX3: a new line of sensors, electrodes, instruments and accessories for electrochemical measurement.

VISUAL FLOWMETERS

Variable Area Flowmeters

FLOWX3 - FLOW MONITORING EQUIPMENT

- Paddle wheel technology
- Insertion Magmeter
- Flow monitors and transmitters

CHEMX3 – CHEMICAL MONITORING EQUIPMENT

CHEM X3 — Chemical Monitorina

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MANUAL AND ACTUATED VALVES

For use in all industrial and building services solutions.

Durapipe FIP - A complete range of manual & actuated valves.

Durapipe offer a complete range of manual and actuated valves including ball valves, led by the innovative VDK range of 2 and 3 way ball valves, as well as butterfly valves, diaphragm valves, ball check valves and other flow control solutions.









The Durapipe FIP range of valves are widely used in a variety of industrial applications around the world, from water treatment to shipbuilding. Plus many more in-between.

From a specialised in-house valve department, a wide range of valves are available to complement the pipe and fittings ranges in order to offer fully matched systems.

The various valve types are available in all materials with a choice of valve seals and end connections. These choices would normally depend on the type of fluid being transferred through the system.

A dedicated actuation team is available to offer technical advice and assemble complex actuated valve packages. Valves can be supplied with electrically or pneumatically actuation devices.

KEY PRODUCT INFORMATION

Ball Valves

Sediment Strainers

Butterfly Valves

- Pressure Relief Valves
- Diaphragm Valves
- Wafer Check Valves
- Air Release Valves

KEY PRODUCT FEATURES

- Lightweight
- Easy to install
- Robust
- · Complete system matching
- Complete actuation traceability

TYPES OF ACTUATION

- ELECTRIC ACTUATORS

- Multi voltage
- IP65 rated
- Emergency manual override
- Adjustable limit switches
- Failsafe option
- Atex approved option

- PNEUMATIC ACTUATION

- Single acting failsafe closed/open
- Double acting
- Limit switches
- Positioners and position indicators
 - MANUAL LIMIT SWITCHES
 - SOLENOID VALVES

TYPICAL APPLICATIONS

- For use with all Durapipe systems
- PVC-U Excellent resistance to chemicals and non toxic ideal for most general purpose applications
- ABS Wide temperature range, ideal for chilled, condensate and cold water systems
- Corzan (PVC-C) High temperature performance and excellent chemical resistance — Ideal for conveying hot chemicals or heavily chlorinated materials
- Polypropylene Tough and durable, resists many concentrated acids, alkalis and organic solvents — ideal for many industrial applications, particularly in the chemical industries.

MANUAL AND ACTUATED VALVES