

what's new
in the

pipeline

IPS - setting the standards

International Plastic Systems is the UK market leader in industrial plastic piping systems.

IPS is also the European partner for some of the world's leading plastic systems manufacturers.

We have a reputation for quality, customer service and technical know-how gained from many years experience in our industry. Our sales team is drawn from piping designers, contracts engineers and plastic industry specialists. Several are trained piping installers with many years experience in the field, and they can offer real practical help.

Our stock range includes piping systems in all thermoplastics, as well as corrosion resistant supports, process and flow monitoring equipment, and installation tools. From our large new facility in the North East of England, we ship products daily throughout the UK, Europe and regularly worldwide.

The full range of products is shown in the IPS Handbook - a 450 page fully priced guide to industrial plastic piping systems. To request your free personal copy, please complete the form below and fax it back to us on 0191 521 3222, or request a copy online at www.ips-plastics.com/handbook



Request for information

Please send me the following:-

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- Information on these product(s):
- A copy of the IPS Handbook

Name:

Job Title:

Company Name:

Address:

.....

.....

Postcode:

Telephone:

Main Business Activity:

Please also send information to my colleagues:-

Name: Job Title:

Name: Job Title:

Name: Job Title:



PVC-U
Systems



PVC-C
Systems



ABS
Systems



Polypropylene
Systems



Polyethylene
Systems



PVDF
Systems



PURAD
High Purity
Systems



Compressed
Air Piping



Pumps



Double
Containment
Systems



Process
Measurement



Fixings &
Supports



Tools &
Installation
Equipment



Sheet & Rod

photocopy, complete and
fax to 0191 521 3222

International Plastic Systems Ltd.
Seaham Grange Ind Est. Co Durham. SR7 OPT England.
Tel: 0191 521 3111 Fax: 0191 521 3222
Web Site: www.ips-plastics.com E-mail: info@ips-plastics.com

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Special Edition

New reference manual for Plastic Piping Systems

The IPS Handbook is the most complete reference book in the industry - featuring an exciting range of plastic piping systems for a multitude of applications.

The 2004 edition is published in full colour and features the widest available stock range of plastic piping products in the U.K.

The catalogue contains a selection guide as well as over 450 pages detailing plastic pipes, fittings, valves and process equipment.



Many products are unique to IPS, and all systems include a wide choice of items and pressure ratings.

Products featured in the IPS Handbook include:-

- Clear PVC-U pipe and fittings
- Compressed air piping
- Manual and actuated valves
- Flow measurement instruments
- Chemical piping systems
- High temperature chemical drainage piping
- Sheet and rod for fabrication or machining
- High purity piping for ultra-pure liquids
- Tools and welding equipment
- Double containment piping systems
- High temperature PVC-C piping

Previous editions of the IPS Handbook have proved to be invaluable to system designers, installers and buyers. Copies are available free of charge on request from the IPS sales team, or by completing the request form overleaf.

Request online at www.ips-plastics.com/handbook

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Double Containment Piping systems for safety and protection

There is increased use of double containment piping systems for applications that require higher margins of safety and protection for the environment or workforce.

IPS has a comprehensive selection of double containment piping systems that have been specifically engineered to offer a solution to virtually every application. The systems utilise proven highly corrosive resistant materials such as PVC, Polypropylene and PVDF, and the system can be supplied in a range of configurations, pressure ratings and dimensions.

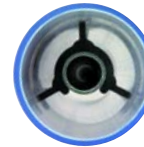
The range includes a new system that is solvent cement welded using transparent or standard PVC or CPVC, or heat fusion systems that are welded in Polyethylene, Polypropylene and PVDF.

Mixed systems are often used - which allows for the selection of different piping materials and jointing methods for both carrier and containment pipes. Such systems utilise different materials to provide high levels of chemical resistance from the carrier pipe, and impact and corrosion resistance from the containment pipe.

Special welding techniques have been developed to facilitate joining twin-wall pipes. Often it is possible to simultaneously weld the system using standard butt welded joints, but where dissimilar materials have been used for the carrier and containment pipe, separate "cascade" welds are used.

Above ground systems can use transparent containment piping to provide a visual indication of any problem. Leak detection systems can also be incorporated both above or below ground to provide early warning of a leakage in the pipe.

IPS has considerable experience in these products and can assist you in determining the correct selection of double containment systems to satisfy cost, design and installation criteria.



Flow X3 flow monitoring

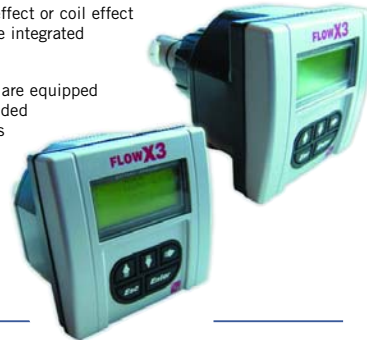
The new range of Flow X3 paddle wheel flow sensors and flow transmitters will provide accurate measurement in plastic or metal pipes.

A paddle wheel flow-sensor is installed so that when liquid flows through the pipe the paddle wheel rotates at the speed of the flow. The five bladed rotor is manufactured from PVDF with a permanently embedded magnet in each blade. The sensor has a Hall effect or coil effect transducer in the body creating an output pulse that is processed by the integrated electronics into a square wave output frequency.

Paddle-wheel sensors are able to measure flow in both directions, and are equipped with ceramic rotor shafts with two ceramic bearings, ensuring an extended life even at high velocities. Output signals are capable of transmissions up to 300 metres.

A range of installation fittings is available in PVC-U, PVC-C, Polypropylene, Polyethylene and PVDF.

The display has an IP65 enclosure. Using the on-board menu, further customisation is possible to show for example different engineering units or measuring ranges.



Vented ball valves for chemical applications

Normal ball valve operation can entrap chemicals such as sodium hypochlorite (bleach) solutions in the internal body cavity. Under certain conditions, entrapped fluids can be from caustic crystalline residues, and pressures build up from the gases developed.

As a result of this effect, a valve can suffer from impaired operation, in many cases leading to damaged valve components. Spears vented ball valves have been developed to ensure long term reliability by alleviating this problem.

A 1/8" vent hole in the ball equalises internal fluid pressure and maintains a wetted surface to prevent residual crystallisation. When installed with the ball vent on the pressure (upstream) side when in the closed position, the problem of fluid entrapment is eliminated.

- Designed for Sodium Hypochlorite and other chemical applications
- Features built in locking handle, and double "O" ring stemseals
- EPDM or VITON "O" ring seals
- Sizes from 1/2" to 4"
- Available in PVC-U or PVC-C



SureGrip® liners protect new or existing concrete structures

Concrete pipes or structures such as tanks or bunds can be subject to damage due either to structural failure or chemical attack. Linings are frequently fitted to prevent this problem, or they can be retrofitted to provide a secure repair. Typically made from rubber, epoxy resin or fibreglass, new products using extruded sheets of thermoplastic have made this process even more secure and cost-effective.

Lining concrete structures with a chemically resistant thermoplastic material offers many advantages over traditional lining systems. Ease of installation, a long service life, and excellent chemical resistance characteristics all combine to create an extensively adaptable protective lining system suitable for a wide range of applications.

AGRUSAFE Sure Grip sheets are manufactured with 420 studs per square metre integrally formed on one side of the liner. When encapsulated in concrete, these studs create an inseparable bond between the liner and the substrate.

This unique patented stud design restrains the liner against the differential thermal forces created between the liner and the concrete, providing exceptional resistance to pull out.

AGRUSAFE Sure Grip is manufactured in a range of thicknesses, colours and materials, including HDPE, PP, PVDF and ECTFE. An extensive range of profiles, semi-finished products and welding rods are also produced to greatly simplify the installation process, whilst also providing the complete compatibility of all the welded connections.

For critical applications, a double sealing system for additional protection against chemical leakage can also be provided by the use of double wall lining system. This special sealing system provides a constant gap between the two liners, which can be segmented into multiple monitoring zones.

RANGE OF APPLICATION

- Storage Tanks
- Sewer Pipes
- Foundations
- Tunnels
- Open Trenches



Websites contain more information

The IPS websites are the source of latest information including technical resources and prices. There are links to our partners' websites and you are able to download or search through articles from current and previous issues of What's New In The Pipeline.

For those wishing to view our range and prices, our entire catalogue is available to download in sections.

To check out the latest information, bookmark our website addresses: <http://www.ips-plastics.com> for our main site, and <http://www.ips-blazemaster.com> for our site covering fire protection systems.