

**James Walker**<sup>®</sup>

## Global support for the Oil & Gas industry



Advancing industry through innovation



## Global expertise — local resource



### Creating opportunities through innovation

From the development of the first RGD resistant elastomers to pioneering the use of thermoplastic valve seats – James Walker companies have always had a strong focus on the real issues faced by those operating in the Oil and Gas industry.

Through this highly focused approach and by delivering advances in materials and sealing technology, James Walker developments are continually helping to improve operational performance and safety, providing our customers with an essential competitive advantage.

### Worldwide support

We operate as a single supply source with the ability and expertise to back up fluid sealing applications anywhere around the globe, providing the ideal scenario for our customers... one single point of contact whatever the requirement, wherever it is required.

Our hub structure and strategically positioned manufacturing facilities mean that we can provide a rapid response to customer problems with local expertise, helping to minimise costly downtime.

“Optimising current operations and being one step ahead for future developments - that’s why our customers choose to partner with James Walker.”





### In-depth understanding

Whatever the application, you will be talking to someone who not only understands the problem but also understands your industry.

James Walker engineering and support teams bring experience from virtually every major industrial sector to bear on the problems faced by our customers. The breadth and depth of this combined experience often providing solutions where others fail

“Local support backed by world-class expertise and facilities through a global supply and service network...the ideal business configuration for today’s rapidly changing markets.”

### World-class infrastructure

Experience and technical ability is of little value, however, without the right systems in place. James Walker continues to place considerable investment in the right systems such as Oracle®11i enterprise management, web-based purchasing facilities plus video and internet conferencing.

Wherever we are operating, we can maintain our world-class levels of customer service and product quality and continue to achieve our goal of exceeding our customers’ expectations.

## Material science and engineering expertise



### Leading the way in elastomer technology

Through James Walker you have access to leading edge development in elastomeric sealing products. In-house capabilities and expertise extend from materials chemistry and applications engineering through prototyping and manufacture to some of the most comprehensive testing facilities currently available.

The ability to carry out exhaustive RGD testing and simulate operational conditions of extreme physical and chemical environments helps ensure James Walker elastomeric sealing solutions remain at the forefront of sealing technology within the Oil and Gas industry.

### Custom designed spring energised PTFE lip seals

In extreme exploration and production environments where demands begin to exceed the properties of elastomeric seals, James Walker is able to offer a range of bespoke spring energised PTFE lip seals. From 1mm to 2500mm diameter in a variety of materials, these seals are custom designed and manufactured to match each specific application.

### Advanced thermoplastic materials & engineering

James Walker Devol works with OEM and end user clients, engineering alternative solutions to operational problems using advanced thermoplastic technology. The Devol solutions are directly interchangeable with existing components but offer improved performance in every aspect.

Providing a fully project managed 'idea to operational' service, the company offers a range of custom formulated thermoplastic materials matching material performance to each individual application.

“Total control over materials and processes provides James Walker customers with the traceability and guaranteed performance that is essential in this market.”



### Bespoke expansion joint design

Our focus is on optimising expansion joint life and performance. From on-site thermographic surveying through design, materials selection, testing and manufacture to installation, Comflex® bespoke solutions match the highest performance and reliability expectations, whatever the location or operational conditions.

### High specification metal components and precision machining

A specialist in the precision machining of complex parts from exotic alloys, James Walker Moorflex manufactures high specification proprietary components for the major oil and gas OEMs.

Accredited to API Spec Q1 for over 20 years, the company offers an unrivalled quality guarantee across standard ranges of metal seals including API ring joints, backed up by comprehensive stock availability and 24 hour emergency service through the James Walker hub network.

### Vibration attenuation and isolation

Tiflex has over 50 years of experience in the manufacture and distribution of a wide range of polymer based materials and components, specialising in the manufacture of products that are made from cork-elastomer composites. The company's in-house research facilities represent a centre of excellence focused on developing solutions to eliminate vibration and sound transmission.

### Assured tension control technology

Offering a significant advance over traditional bolting practices, RotaBolt® tension control technology guarantees installation to a pre-set tension and continues to accurately measure the tension maintained across the bolted joint.

Providing a simple visual or tactile check of tension, this unique technology has been instrumental in improving safety and reducing maintenance costs and is fast becoming the industry standard bolting system for critical applications in harsh environments.

## Working in partnership to deliver the future



### A partnership for development

Much of the work carried out by our application engineering teams is in creating bespoke solutions to customer problems. Working in strict confidentiality to keep our customers in the race or engineering a competitive advantage for them in a specific application, we can bring considerable resource to bear on the issue at hand.

We run a structured development programme for each of the industrial markets served by the business, working in partnership with customers to identify the current and future needs to be addressed and to improve key performance parameters such as cost effectiveness, longevity, safety and environmental care.

At James Walker our aim is to create the most cost-effective solution and we focus carefully on optimising the lifetime cost of ownership for our customers.

“Our focus is on providing cost effective operational solutions.”

1930s – James Walker pioneers the introduction of the ‘O’ ring seal.

1940s – James Walker is one of the first companies outside the USA to work with PTFE

1950s – Company introduces thermoplastics and fluoropolymers as high integrity sealing materials for arduous conditions.

1970s – Development of FR58/90 and other RGD resistant elastomers for the expansion of deep-sea drilling in the North Sea.

1980s – Launch of Elast-O-Lion® 101 with enhanced mechanical and RGD resistance properties.

1990s – Supagraf® valve stem packing provides a world-beating solution to VOC fugitive emission control issues.

2000s – New generation of elastomeric materials offers a step-change in performance to cope with increasingly hostile operating environments.



“A comprehensive and growing track record of cutting edge innovation.”

Over 2,500 new products developed in the last 10 years

Such a high level of development ensures that our products not only remain relevant to current requirements but in operating at the leading edge of current capability we have an excellent view of what will be required on the road ahead – a factor that has seen James Walker responsible for step-change innovations in the oil & gas industry on many occasions.

Working in partnership with the world’s best

James Walker is focused on working in partnership with key oil and gas companies and OEMs to overcome challenges faced as the exploration and extraction of natural resources grows increasingly complex.

Leaders in materials development

Our companies continue to lead the way in materials and sealing engineering development for the next generation of sealing solutions that will match the challenges of higher pressures, greater depths, extreme temperatures and harsh chemical environments.

World-class resource

With continual investment in our own world-class materials and product testing facilities, plus the recruitment and retention of experience and expertise in materials science and applications engineering at our hubs and key facilities around the globe, we believe that James Walker offers an unrivalled service to the global Oil and Gas industry.

Meeting the challenge

To explore the capabilities offered to the Oil and Gas industry by the specialist divisions of James Walker and find out just what opportunities could be created for your business, contact your local James Walker office today.

## James Walker Worldwide Oilfield Support

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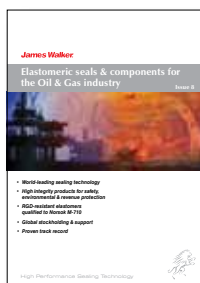
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### New hub open from September 2010

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Elastomeric products



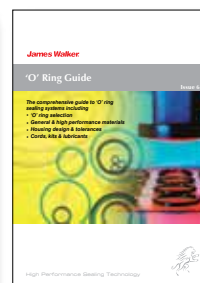
RotaBolt® tension control



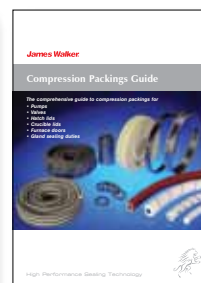
Gasket technology



Valve components



'O' rings



Compression packing

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