Wellhead Sealing Guide

• Sealing solutions for the Oil & Gas industry
• Innovative technology offering safety, performance and reliability
• Global customer service and product support
About James Walker

The Oil & Gas industry

James Walker has long been committed to the provision of sealing solutions for the exploration and production of oil and gas.

Our capabilities in high performance materials science are relied upon worldwide by customers who need top quality materials that are validated and proven to operate:

- At extremes of pressure
- In chemically aggressive and physically abrasive environments
- Under rapid gas decompression (RGD) conditions
- In naturally occurring chemical / sour gas environments
- With large clearances and / or poor surface conditions
- To the highest performance specifications laid down by international industry
- With temperature cycling regimes
- At extremes of temperature
- Where failure could have significant health & safety, environmental or financial risk

The correct selection and specification of sealing materials and products is a prerequisite to the safe and effective operation of plant and the prevention of expensive downtime.

Please see the relevant James Walker guide for comprehensive product descriptions.

To get your copy, see the contact details on the rear cover, or visit our website www.jameswalker.biz.

Technology & innovation

- Working in partnership with the Oil & Gas industry for over 40 years
- In-house development of world-beating rapid gas decompression (RGD) resistant elastomers
- Confidential research projects both for and in partnership with clients
- Development of current best in class emissions control technology for valve stem sealing

Testing and verification

- We hold test equipment for all relevant ANSI, API, ASA, ASTM, BS, DIN, DTD, ISO and NATO standards
- Environmental chambers capable of replicating conditions from -70°C to +130°C
- Rapid gas decompression rigs – amongst the most advanced in the world
- Steam skid for testing seal design and materials under steam regimes
- Rotary and reciprocating test rigs with a variety of shaft sizes and speeds up to in excess of 6,000 rpm
- Chemical type-approval testing allowing customers the opportunity for third party-witnessed testing of elastomers and polymers in their anticipated chemical environment

Manufacturing excellence

- Special expertise in the machining of thin-walled annular components
- Highly skilled at working with nickel alloys that are difficult to machine
- Total control from concept through manufacture to supply and commissioning
- Full certification and traceability of all materials
- In-house processing and compound manufacture of elastomers and thermoplastics
- James Walker Moorflex is API Spec Q1 licensed for ring joint manufacture
- ISO 9001:2008 approved for design, manufacture and technical support

Customer service

- Key operational hubs in Aberdeen, Houston, Singapore and Rio de Janeiro
- Worldwide family of James Walker companies
- Over 50 production, engineering, distribution and customer support sites spread across Europe, Australasia, Asia Pacific, Africa and the Americas
- Local network of James Walker companies and official distributors working in close partnership with customers in well over 100 countries

General information

Health warning: If PTFE or fluororubber (e.g., FKM, FFKM, FEPM) products are heated to elevated temperatures, fumes will be produced which may give unpleasant effects, if inhaled. Whilst some fumes are emitted below 250°C from fluororubber or below 300°C from PTFE, the effect at these temperatures is negligible. Care should be taken to avoid contaminating tobacco with particles of PTFE or fluororubber, or with PTFE dispersion, which may remain on hands or clothing. Material Safety Data Sheets (MSDS) are available on request.

Information in this publication and otherwise supplied to users is based on our general experience and is given in good faith, but because of factors which are outside our knowledge and control and affect the use of products, no warranty is given or is to be implied with respect to such information. Unless governed by type approval or contract, specifications are subject to change without notice. Statements of operating limits quoted in this publication are not an indication that these values can be applied simultaneously.

To ensure you are working with the very latest product specifications, please consult the relevant section of the James Walker website www.jameswalker.biz.
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Elastomeric products
RotaBolt® tension control
Gasket technology
Valve components
‘O’ rings
Compression packing