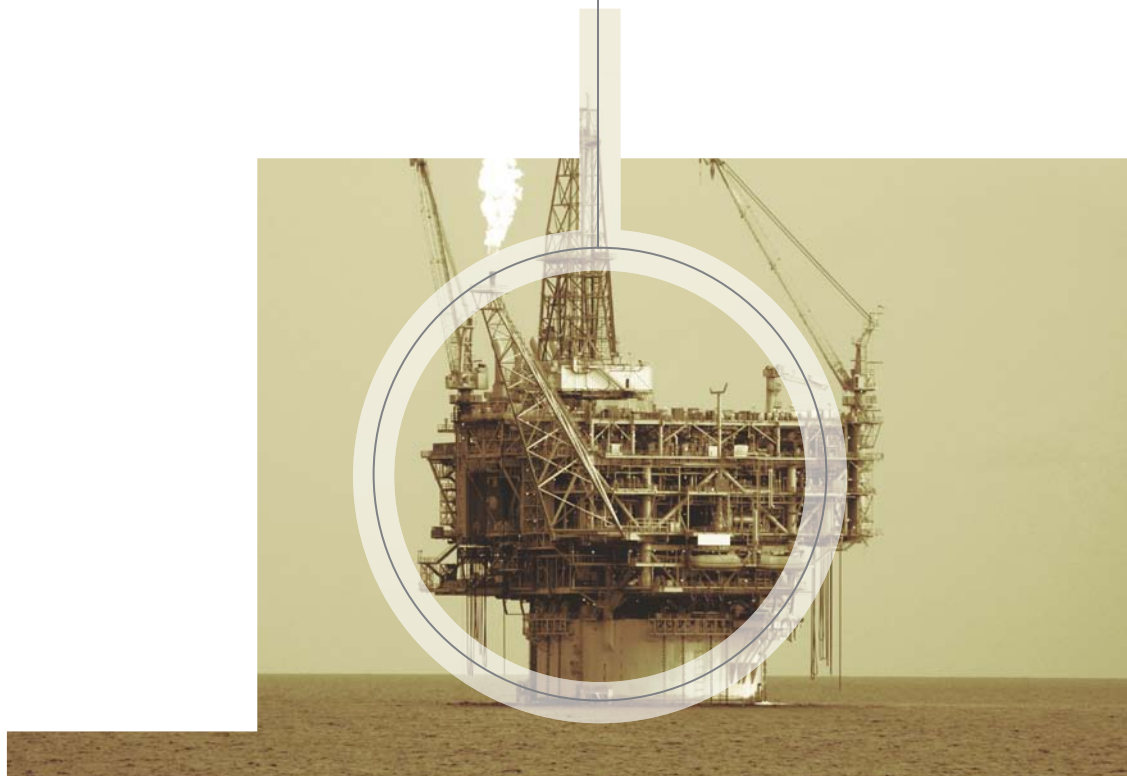


ManSafe® for Oil and Gas

The complete fall protection solution
for onshore and offshore applications

Overhead systems
Horizontal systems
Vertical systems
Self Retracting Lifeline (SRL)



Working at height in the oil and gas industry



Latchways has been active in the fall protection industry for over 35 years and is able to offer the most innovative and inherently safe solutions for working at height within the oil and gas sector. The Latchways range of products will ensure the safety of workers when working at height in the harshest environments and are complemented by a number of value adding services such as training, recertification, specification and a fully integrated in-house customer service team.

Latchways products can be used in a number of different scenarios ranging from general maintenance to rig up and rig down activity, servicing the pipe racks and ascending / descending the derrick ladder.

Tailored solutions

Latchways in-depth knowledge of the energy industry means that we can offer a tailored solution dependant on the project requirements. The inherent flexibility of the Latchways ManSafe products make them the ideal fall arrest systems for numerous applications within the oil and gas industry. All systems can be designed and installed to follow the often complex contours of these structures.

Quality control

Latchways base product design on innovative engineering using high quality components which is reflected in our ISO9001:2008 accreditation. Quality is therefore at the centre of everything we do.

- System components are made from industry recognisable quality materials such as marine grade 316S stainless steel and 17/4 PH stainless steel for the critical cast components.
- Every part of each system is individually inspected and all critical castings are subject to X-ray inspection and either dye penetrant or magnetic particle analysis.
- Every product is marked to provide complete traceability.
- Every component is designed to perform to a safety factor of two.



Testing

All of Latchways products are extensively tested, passing and in many cases exceeding the required standards. For example the ManSafe Sealed Self Retracting Lifeline (SRL) is the only product on the market that currently holds the IP69K Ingress Protection standard allowing high pressure, high temperature, wash down operations, as well as IP68.

During product development, prototypes are subjected to comprehensive testing including static strength, corrosion resistance, locking, conditioning and dynamic performance. Testing is conducted in Latchways' own testing facilities and the results are submitted to external laboratories for independent verification.

ManSafe for Oil and Gas

The Latchways ManSafe SRL



Also available in high-visibility cases.

The ManSafe SRL range of products is unique—Latchways have totally re-engineered the method by which SRLs function, utilising modern design and engineering principles, creating additional safety features. The major benefit is complete field serviceability reducing product downtime and ownership costs.

Latchways re-engineering is based on a modular design allowing all units to be maintained on-site, without needing to be returned to a service centre during their lifetime. On-site maintenance is possible due to a very simple stainless steel coil mechanism which absorbs the energy in the event of a fall—Constant Force. Also the 100% reliable Full Contact™ pawl locking mechanism creates an audible click which can be felt whilst in use indicating the system is working correctly.

Serviceability is a key consideration when purchasing SRLs. The cable and hook assembly is traditionally the component seeing most wear, so all Latchways units have been developed to enable simple cable replacement in a matter of minutes. Furthermore, if a fall occurs, the energy absorber can easily be replaced, allowing the SRL to be safely returned back to service. Training for this and the other simple service techniques are available free of charge from Latchways avoiding complete factory rebuilds.

Modular componentry allows quick field servicing.

Standards

- BS EN 360:2002
- ANSI Z359.1-1999
- ANSI Z359.1-2007
- OSHA 1910.66
- OSHA 1926.502
- CSA Z259.2.2-98



Key benefits

- On-site (on- and offshore) servicing
- Speedy replacement of cable and hook assembly and Latchways Constant Force load absorber
- Toughened case that withstands harsh environments

ManSafe overhead systems

Workers attached to the ManSafe overhead system have both unfettered mobility and continuous, hands-free security whilst working at height. The Latchways' ManSafe overhead system consist of a length of cable, each end being attached to a structure using Latchways revolutionary Constant Force® technology at one end and a D-ring at the other. The cable is tensioned by Latchways unique tensioning device; single pans can be up to 60 m in length, longer lengths requiring intermediates. Users are connected to the cable by an innovative mobile anchorage in a robust solution that offers outstanding levels of safety, convenience and versatility in virtually any environment. Should a fall occur the cable and Constant Force unit absorb the energy created by the fall ensuring the users fall is safely arrested.

ManSafe horizontal systems

The concept of the ManSafe overhead system is replicated in the ManSafe horizontal system which is usually fixed to a structure at shoulder/waist height following the contours of the structure to ensure the worker can access all areas whilst still attached to the system. End fixings are similar to the ManSafe overhead system; the intermediates are D-rings through which the unique Latchways Transfastener™ will effortlessly pass when the user is on the system.

Standards

- System tested to EN 795
- Mobile anchorage certified by SATRA
- Conforms to EN 362:1992



Latchways unique removable Transfastener can be removed at any point along the cable and allows hands-free work along the length of the system.

Key benefits

- Quick and simple installation
- Less costly to install than 'I' beam systems
- Can be configured as a single span (up to 60 m) or multi-span system
- Can be used by up to three workers
- Mobile anchorages remain permanently attached to system
- Can be retrofitted to existing structures or incorporated at the design stage of new facilities
- Easily able to accommodate changes of direction
- Written warranty available on service life of system

ManSafe for Oil and Gas

ManSafe horizontal and vertical systems

ManSafe vertical systems

Latchways' ManSafe vertical systems, generally comprised of; top anchor, bottom anchor, intermediates, cable and LadderLatch™ device, provide outstanding personal safety for workers on a fixed ladder.

The proven effectiveness of the LadderLatch unit with its unique Latchways starwheel component provides workers with the security of being constantly attached to the system whilst also having both hands free for climbing. If a worker should fall from the system, the LadderLatch device immediately locks onto the system cable and arrests the fall.

In the event of a fall, a worker attached to a ManSafe vertical system is far less likely to be injured during the fall arrest process compared to a fall from a traditional hoop system.



Latchways LadderLatch unit locks onto the cable in the event of a fall.

Key benefits

- Can be fitted to follow the contours of the structure
- Suitable for retrofitting or as part of a new build
- The whole system is unobtrusive and lightweight
- Operation is not affected by snow, ice or adverse weather conditions
- Can be integrated into a comprehensive system incorporating vertical, inclined and horizontal sections
- Will support up to four workers on a single line
- LadderLatch unit rotates freely through the intermediate cable guides to give the user continuous hands-free protection
- In the event of a fall, the LadderLatch unit locks onto the cable and arrests the fall
- Energy absorbers built into the system protect the end anchors from excessive loads should a fall from the system occur
- The LadderLatch unit can be attached or detached at any point in the system
- Easy to install and maintain
- Meets all appropriate international standards

Standards

- EN 353:1 2002
- CSA Z259.2.1-98
- ANSI Z359.1-2007
- AS/NZS 1891.3-1997
- OSHA Compliant
- Tested and passed the potential new test for EN353-1 standard
- CE marked



ManSafe®

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Transfastener™, LadderLatch™ and Full Contact™ are trademarks of Latchways plc
Images shown are for visual purposes only, hook configuration may vary.