

GD Engineering

AN SPX BRAND



Rotalock™ Quick Opening Closure

Innovative Design Features

While our Bandlock™ 2 is the benchmark design for global high-pressure applications, GD Rotalock™ has been developed to provide an inherently safe, low cost solution for small diameter, low pressure applications.

Designed and priced to offer a superior alternative to screwed closures and blind flanges, Rotalock™ handles lower pressures to ANSI 300 and diameters from 4" to 14". It provides quick and frequent access to a range of vessels in petrochemical, pharmaceutical and chemical process technologies, at temperatures from -30°C to +200°C.

Typical applications include:

- Filters
- Separators
- Meter Provers
- Pig/Scraper Traps
- Blowdowns
- Strainers
- Coalescers
- Waste Disposal vessel

Pressure Warning Screw (PWS)

A key feature of our Rotalock™ design is the Pressure Warning Screw incorporating an integral screw which penetrates through both locking elements in the hub and the cap. When the PWS is unscrewed it will warn the operator of internal vessel pressure before the cap is rotated. Complete withdrawal of the PWS and integral locking pin is required before the cap can be rotated and the closure opened. The PWS is fitted to all sizes but is not designed to function as a blowdown valve.



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Field Weldable Hubs

The Rotalock™ Closure Hub is SA350-LF2 forged carbon steel and no special field welding techniques or procedures are required. Connecting thickness is for standard wall in accordance with BSI600/API. Terminations to match thin wall or extra strong pipe are available at extra cost.

Durable Seal

The fully moulded lip seal is available in Nitrile (NBR) and fluorelastomer material (Viton). It is located in the cap to prevent operational damage. The use of a lip design prevents metal-to-metal binding which is often experienced when using 'O' rings in quick-opening threaded closures.

Easy Operation

The PWS with its integral locking pin is unscrewed and completely removed. This enables the cap to be partially rotated which separates the seal surfaces giving the operator a secondary warning if pressure is still present in the vessel. A further turn of the cap allows it to be withdrawn from the hub and swung fully clear using the hinge or davit. The whole operation can be carried out by one person without the need for special tools or wrenches. Total closing of the cap is also guaranteed since the locking mechanism must be fully engaged before the integral pin is relocated and this enables the PWS to be finally screwed into its seating.

Secure Cap

Manufactured in cast carbon steel SA352-LCB material. The head is drilled with a M16 metric thread into which the PWS is located. The exposed hole is considerably larger than that provided on other designs to ensure that the risk of blockage is minimized.

Dual Hinging

All of our standard horizontal closures have jib arms which allow the cap to swing to either side after opening to give greater installation flexibility. Vertical opening uses a screwed davit to lift the cap clear of the hub.

Code Compliance

The Rotalock™ Closure is designed in accordance with ASME VIII Div. 1. ASME Code Stamp with U-2A partial data report can be furnished as an option. Code stamping verifies shop inspection of the closure and materials by an ASME Authorised Inspector.

CE Marking for European applications is available as an option.

NACE Standard MR-01-75 / ISO 15156 materials are available.

Hydrotest

Rotalock™ Closures can be hydrotested as an option.



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Your local contact:



GD Engineering, An SPX Brand
Retford Road
Worksop
Nottinghamshire S80 2PY
Phone: +44 (0) 1909 482323 Fax: +44 (0) 1909 477902
E-mail: gd@spx.com

For more information about our worldwide locations, approvals, certifications, and local representatives, please visit www.gdengineering.com.

SPX Corporation reserves the right to incorporate our latest design and material changes without notice or obligation. Design features, materials of construction and dimensional data, as described in this bulletin, are provided for your information only and should not be relied upon unless confirmed in writing.