

## Special Closure Applications

To complement our existing range of closures designed primarily for the oil and gas industries, GD Engineering can provide closure solutions for a range of industrial and environmental applications where rapid, safe access is required to a pressurised vessel.

Using our sophisticated in-house technical engineering facilities, incorporating 3D solid modelling and ANSYS FEA software, combined with a team of highly qualified and experienced engineers, we are able to provide comprehensive engineering solutions to meet our client's applications.

### Examples of recent projects include:

#### Industrial/Domestic Waste Treatment Closures

Ranging in size from 1.8m to 2.5m these closures are for use on industrial/domestic waste treatment vessels utilising a steam reduction process. Fully automatic in operation, they provide quick and safe access to the vessel contents. Safety interlocks ensure that the closure cannot be opened before internal pressure in the vessel is released.



60" Fully Automatic Waste Treatment Closure

The closures are designed for remote and continuous operation in harsh environments and incorporate many of the features found in our established oil and gas range.

#### Industrial Dry Cleaning Closure

To complement the latest designs of industrial dry cleaning machines utilising higher operating pressures and environmentally friendly processes, GD Engineering has developed a quick opening closure incorporating a simple locking arrangement and safety interlock system. The closure provides quick and safe access to the machine contents with only minimal operator training required before use.



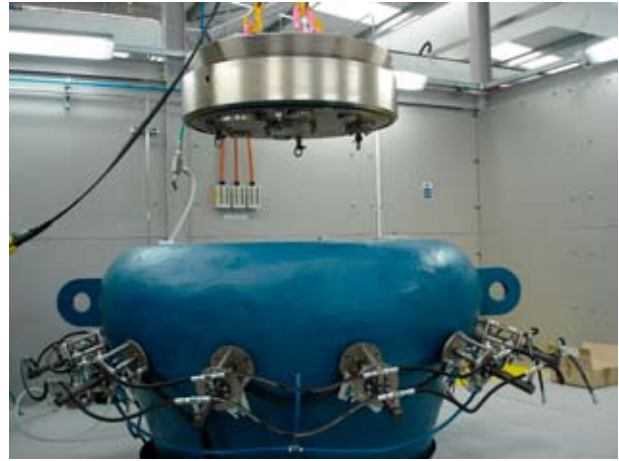
18" Industrial Dry Cleaning Closure

Suitable for continuous operation to meet the high frequency demands of the process the closure is of robust design requiring only minimal maintenance. Visual indicators on the closure provide confirmation of closure door status; their outputs being incorporated into the machine control system.

### High Pressure Test Vessel Closures

High pressure closures have been developed to allow quick access to test vessels used to verify the performance of components and assemblies required to operate at extreme static or dynamic pressures. Applications include test chambers for deepwater subsea components and processes involving rapid dynamic loading.

Typical static pressure range up to 1000 bar g but dynamic pressure transients could be higher. The closure door can be designed to accommodate umbilical and instrument connections to monitor the performance of the components under test.



1 metre I/D Connector Test Vessel c/w Bandlock 2 Closure

# SPX®

Your local contact:



SPX Flow Technology  
GD Engineering  
Retford Road  
Worksop  
Nottinghamshire S80 2PY  
Phone: +44 (0) 1909 482323 Fax: +44 (0) 1909 477902  
E-mail: [gd@spx.com](mailto:gd@spx.com)



For more information about our worldwide locations, approvals, certifications, and local representatives, please visit [www.gdengineering.com](http://www.gdengineering.com) and [www.spxft.com](http://www.spxft.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.