

KW Designed Solutions LTD
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High Pressure Testing Systems

Standard Solutions with Threaded Closures

We provide both standard and tailored equipment, which is designed, manufactured and tested in accordance with the European Commissions Pressure Equipment Directive. Servicing the Petrochemical and Oil and Gas Industries, providing high pressure testing solutions for manufacturers of sub-sea and off shore equipment.

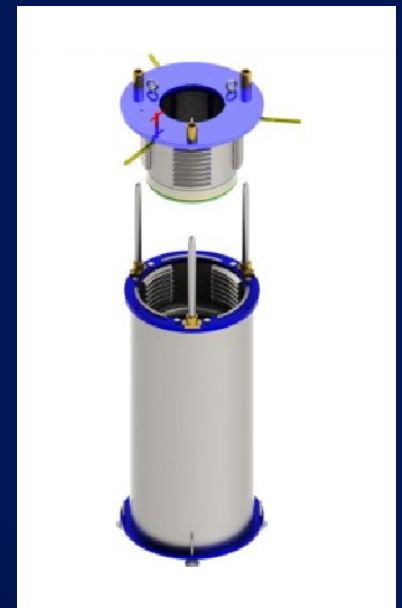
Options for our standard vessel solution include:

- Pressures up to 1,380 bar (20,000 psi)
- Bore diameters from 100mm to 1000mm
- Bore depths up to 2.5 x bore diameter
- Quick acting (interrupted thread) and continuous threaded closures
- Manual and semi automatic pressure media control systems
- Temperature control systems

Additional non – standard options (consult our sales team)

- Agitation of sand / silt in pressure media
- Pressure balanced actuation of test component.
- Vessel rotation
- Automated closure operation

Detailed on the next page are some of the configurable variations of our standard quick acting (interrupted thread) and simple continuous threaded closure vessels.



Above - Examples of KW's standard quick acting closure solution. (breach) 1/8 closure.

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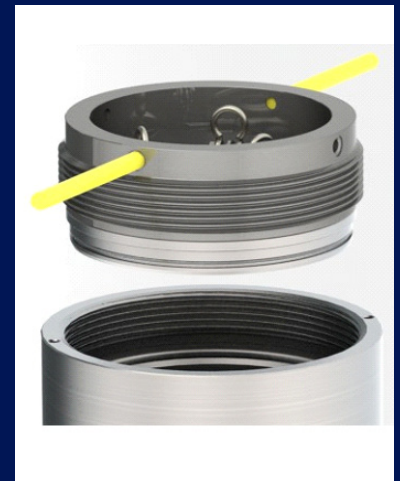
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Configuration Notes

1. All vessels are blind bore i.e closure at one end only. Vessels can be supplied with closures both ends, but are not standard. Enquire with our sales team if this is a requirement.
2. Bore lengths are supplied as standard as either 1, 1.5, 2 or 2.5 x bore diameter. i.e. a 200mm bore vessel can be supplied with a working bore length of either 200, 300, 400 or 500mm.
3. Continuous threaded closures can only be supplied with bore diameters of up to 400mm.
4. Standard vessels are designed to operate in the temperature range of 0 to 50 Deg C. For temperatures outside this range please enquire with our sales team.
5. Standard temperature control systems can be supplied. These include:
 - I. Electric band heaters with insulation jackets clamped to the outside diameter of the vessel.
 - II. Internal thermocouple for temperature control
 - III. External thermocouple for safety monitoring of band heater(s).
 - IV. Remote control panel with process controllers for temperature set point control and over temperature alarms.
6. Standard pressure media control systems can be supplied. These can be either manual or semi automatic to control the filling / purging / pressurisation to set point / dwell time at pressure / controlled decompression and draining. Please consult with our sales team for further details.



Above - Examples of simple continuous thread closure.

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Product Selector

Please use the Options Selector below to configure a part number to aid enquiries. The part number takes the format:

111 / 2222 / 3333 / 4444 / 5 / 6

1

| Closure type | Substitute |
|---|------------|
| Interrupted thread <i>(quick acting)</i> | INT |
| Continuous | CON |

2

| Bore diameter | Substitute |
|---------------|-------------|
| 100mm | 0100 |
| 200mm | 0200 |
| 300mm | 0300 |
| 400mm | 0400 |
| 500mm * | 0500 |
| 600mm * | 0600 |
| 750mm * | 0750 |
| 1000mm * | 1000 |

* not available as continuous thread

3

| Working Bore Depth | Substitute |
|-----------------------|-------------|
| Required Distance | ???? |
| <i>Example, 200mm</i> | 0200 |

4

| Max Operating Pressure | Substitute |
|------------------------------|-------------|
| 345 Bar <i>(5,000 psi)</i> | 0345 |
| 690 Bar <i>(10,000 psi)</i> | 0690 |
| 1380 Bar <i>(20,000 psi)</i> | 1380 |

5

| Pressure Media Control | Substitute |
|------------------------|------------|
| Not required | X |
| Manual | M |
| Automatic | A |

6

| Temperature Control | Substitute |
|---------------------|------------|
| Not required | X |
| Required | T |

Example part number

Interrupted (quick acting) closure, with a bore diameter of 400mm, 800mm long, maximum operating pressure of 690 bar with manual fluid control and no temperature control would be as follows:

INT / 0400 / 0800 / 0690 / M / X

Please consult our sales team should you require any assistance or wish to discuss any requirements outside those offered as standard.