

# Penetrators



- UK Manufactured
- Full material traceability
- Manufactured in line with DNV GL ISO 9001:2015
- ABS/DNV/Lloyds Class Certification available.

**OTAQ Connectors manufacture a range of penetrators suitable for manned and unmanned surface and subsurface pressurised systems.**

Available with various threaded NPT and smoothbore options to suit customer requirements. All our penetrators can be manufactured and tested to DNV, ABS or Lloyds classification as specified by the customer at the time of order.

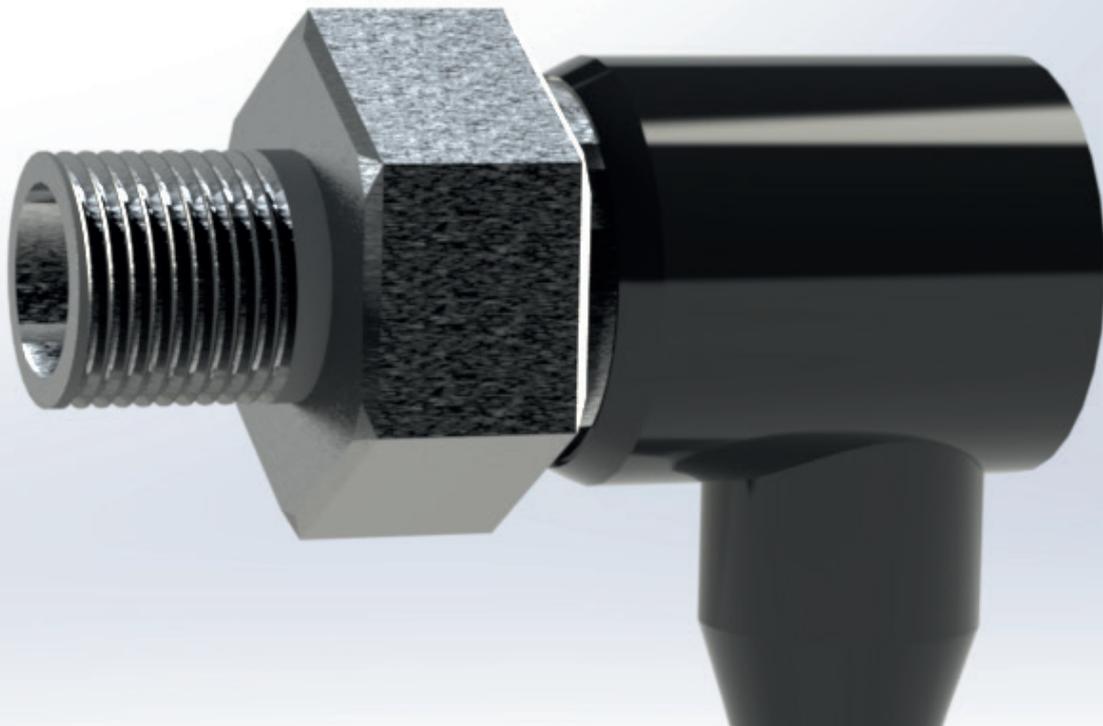
As standard, on the inboard side of the Penetrator we use class approved wire covered in a Low Smoke, zero halogen heat shrink and outboard Polyurethane jacketed cable or a Neoprene jacketed cable, if preferred.

The penetrator comprises of a fully pressure blocked glass filled epoxy insert with turned gold plated brass penetration. The wired insert is housed within the Aluminium Bronze, 316 Stainless Steel or Titanium penetrator Body.

The Penetrator body is fitted with a safety sheer notch to prevent the loss of pressure integrity in the event of the penetrator being damaged.

The outboard cable and the over-moulding covering the cable entry into the Aluminium Bronze or 316 Stainless Steel shell, is of polyurethane and cross linked with both the body shell and cable jacket. Cable entry can be in-line or at 90 degrees to the vessel body as desired.

Our penetrators are manufactured at our Cumbria facility, in line with our ISO 9001:2015 accreditation via DNV GL.



**Market**

Diving, Military, Offshore energy, underwater archaeology, oceanographic research, nuclear energy, aquaculture.

**Applications include**

Diving Bells, Chambers, Hyperbaric Rescue Facilities, Hyperbaric Medical chambers and associated pressurised environments with human occupancy.

**Connector Specification Voltage rating:** 24V DC @ 10A with further Voltage current options available dependant on insert and cable type specified.

**Operating pressure:** 30 bar (other pressure ratings available on request)

**Material Specification Penetrator body:** Aluminium Silicon Bronze, Stainless Steel or Titanium

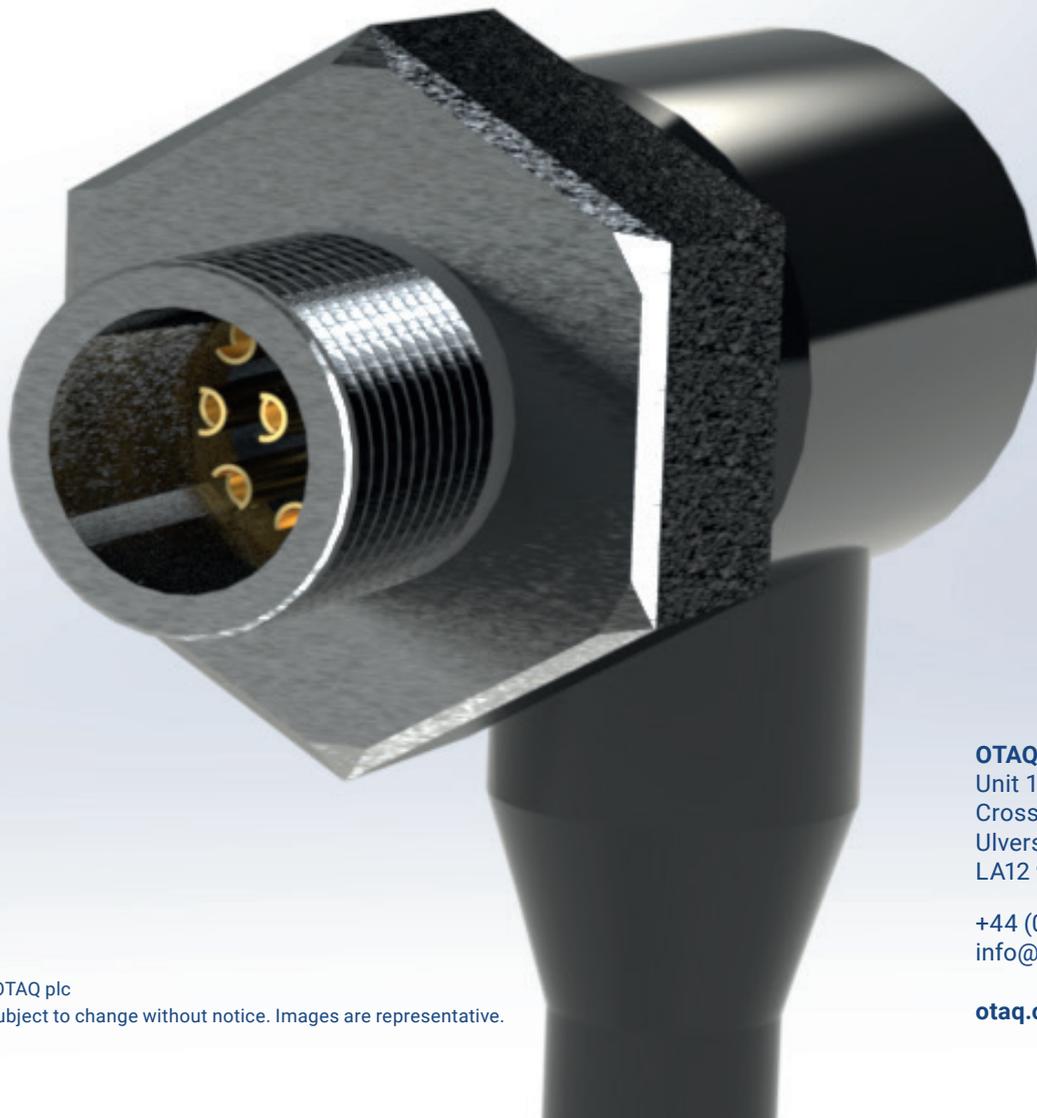
**Internal Insert material:** Glass Filled Epoxy

**Contacts:** Gold plated brass UNS - C36000

**O-rings:** Nitrile (other types available on request)

**Inboard Cable:** Type Approved Low Smoke, zero halogen with heat shrink covering (Other options available on request)

**Outboard Cable:** Polyurethane, Neoprene jacketed cable (Other types available on request)



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