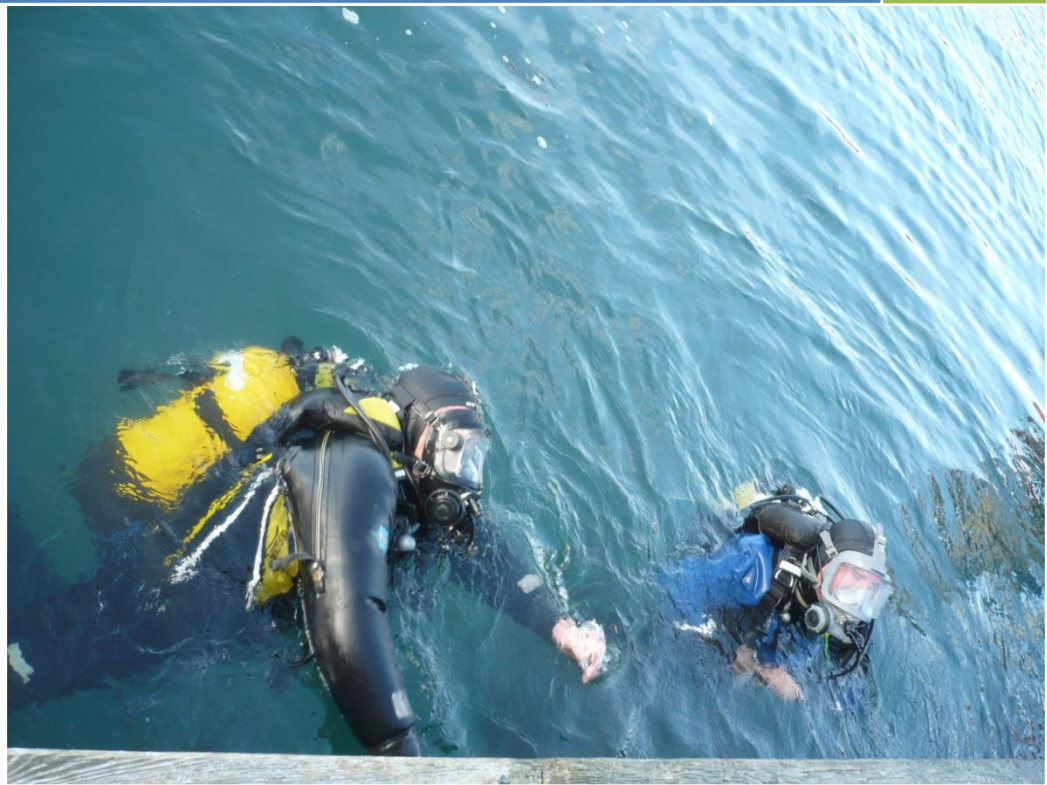




2014

Diving Standards



Health & Safety Authority
August 2014

This information is provided for reference only. As standards are under regular review, readers can validate the status of Irish standards on the National Standards Authority of Ireland's website at www.standards.ie and the status of British Standards at www.bsigroup.com

Irish Standards

The following is a non exhaustive list of Irish standards relating to diving.

Air Quality

1. I.S. EN 12021: 2014 – Respiratory Equipment – Compressed Gases for Breathing Apparatus.

Buoyancy Compensators

1. I.S. EN 1809: 2014 - Diving Equipment – Buoyancy Compensators – Functional and Safety Requirements, Test Methods.
2. I.S. EN 12628: 1999 COR¹ 2000 – Diving Accessories – Combined Buoyancy and Rescue Devices – Functional and Safety Requirement, Test Methods.

Cylinders and Valves

1. I.S. EN 144 – 1: 2000 AMD² 2 2005 – Respiratory Protective Devices – Gas Cylinder Valves – Part 1: Thread Connections for Insert Connector.
2. I.S. EN 144 – 2: 1999 - Respiratory Protective Devices – Gas Cylinder Valves – Outlet Connections.
3. I.S. EN 144 - 3: 2003 COR 1 2004 - Respiratory Protective Devices – Gas Cylinder Valves – Part 3: Outlet Connections for Diving Gases Nitrox and Oxygen.
4. I.S. EN 1089 – 3: 2011 – Transportable Gas Cylinders. Gas Cylinder Identification (excluding LPG) – Part 3. Colour Coding.
5. I.S. EN 1802: 2002 – Transportable Gas Cylinders – Periodic Inspection and Testing of Seamless Aluminium Alloy Gas Cylinders.
6. I.S. EN 1920: 2000 – Transportable Gas Cylinders – Cylinders for Compressed Gases (excluding acetylene) – Inspection at Time of Filling.
7. I.S. EN 1964 – 3: 2000 – Transportable Gas Cylinders – Specification for the Design and Construction of Refillable Transportable Seamless Steel Gas Cylinders of Water Capacities from 0.5 Litre up to and including 150 Litres – Part 3: Cylinders Made of Seamless Stainless Steel with an R[M] Value of less than 1100MPa.
8. I.S. EN 1968: 2002 AMD 1 2005 – Transportable Gas Cylinders – Periodic Inspection and Testing of Seamless Steel Gas Cylinders.

¹ COR = Correction

² AMD = Amendment

9. I.S. EN ISO 7225: 2007 AMD 1 2012 - Gas Cylinders – Precautionary Labels.
10. I.S. EN ISO 7866: 2012 COR 2014 - Gas Cylinders - Refillable Seamless Aluminium Alloy Gas Cylinders - Design, Construction And Testing.
11. I.S. EN ISO 9809 – 1: 2010 – Gas Cylinders – Refillable Seamless Steel Gas Cylinders – Design, Construction and Testing – Part 1: Quenched and Tempered Steel Cylinders with Tensile Strength less than 1100 MPa.
12. I.S. EN ISO 9809 – 3: 2010 – Gas Cylinders – Refillable Seamless Steel Gas Cylinders – Design, Construction and Testing – Part 3: Normalised Steel Cylinders.
13. I.S. EN ISO 11114-1: 2012 – Gas Cylinders – Compatibility of Cylinder and Valve Materials with Gas Contents – Part 1: Metallic Materials.
14. I.S. EN ISO 11114-2: 2013 – Gas Cylinders – Compatibility of Cylinder and Valve Materials with Gas Contents – Part 2: Non - Metallic Materials.
15. I.S. EN ISO 11114-3: 2010 – Gas Cylinders – Compatibility of Cylinder and Valve Materials with Gas Contents – Part 3: Autogenous Ignition Test for Non – Metallic Materials in Oxygen Atmosphere.
16. I.S. EN ISO 11621: 2005 - Gas Cylinders – Procedures for Change of Gas Service.
17. I.S. EN ISO 11623: 2002 – Transportable Gas Cylinders – Periodic Inspection and Testing of Composite Gas Cylinders.
18. I.S. EN ISO 12209: 2013 - Gas Cylinders - Outlet Connections for Gas Cylinder Valves for Compressed Breathable Air.
19. I.S. EN 12245:2009 + A1 2011 – Transportable Gas Cylinders – Fully Wrapped Composite Cylinders.
20. I.S. EN 12257: 2002 – Transportable Gas Cylinders – Seamless, Hoop-Wrapped Composite Cylinders.
21. I.S. EN ISO 13341: 2010 – Gas Cylinders – Fitting of Valves to Gas Cylinders.
22. I.S. EN ISO 13769: 2009 – Gas Cylinders – Stamp Marking.
23. I.S. EN ISO 22434: 2011 – Transportable Gas Cylinders – Inspection and Maintenance of Cylinder Valves.

Diving Accessories

1. I.S. EN 1972: 1998 – Diving Accessories – Snorkels – Safety Requirements and Test Methods.
2. I.S. EN 13319: 2000 - Diving Accessories – Depth Gauges and Combined Depth and Time Measuring Devices – Functional and Safety Requirements – Test Methods.

Diving Breathing Apparatus

1. I.S. EN 250: 2014 – Respiratory Equipment – Open Circuit Self - Contained Compressed Air Diving Apparatus – Requirements, Testing and Marking.
2. I.S. EN 13949: 2003 – Respiratory Equipment – Open Circuit Self-Contained Diving Apparatus for use with Compressed Nitrox and Oxygen – Requirements, Testing, Marking.

3. I.S. EN 14143: 2013 – Respiratory Equipment – Self-Contained Re-Breathing Diving Apparatus.
4. I.S. EN 15333 – 1: 2008 COR 2009 – Respiratory Equipment – Open-Circuit Umbilical Supplied Compressed Gas Diving Apparatus – Part 1: Demand Apparatus.
5. I.S. EN 15333 – 2: 2009 – Respiratory Equipment – Open-Circuit Umbilical Supplied Compressed Gas Diving Apparatus – Part 2: Free Flow Apparatus.

Diving Suits

1. I.S. EN 14225-1: 2005 – Diving Suits – Part 1: Wet Suits – Requirements and Test Methods.
2. I.S. EN 14225-2: 2005 – Diving Suits – Part 2: Dry Suits – Requirements and Test Methods.
3. I.S. EN 14225-3: 2005 – Diving Suits – Part 3: Actively Heated or Cooled Suits (Systems) – Requirements and Test Methods.
4. I.S. EN 14225-4: 2005 – Diving Suits – Part 4: One Atmosphere Diving Suit (ADS) – Human Factors Requirements and Test Methods.

Hyperbaric Welding

1. I.S. EN ISO 15618-1:2002 – Qualification Testing Of Welders for Under-Water Welding. Part 1: Diver-Welders for Hyperbaric Wet Welding.
2. I.S. EN ISO 15618 – 2: 2002 – Qualification Testing Of Welders for Under-Water Welding. Part 2: Diver-Welders and Welding Operators for Hyperbaric Dry Welding.

Recreational Diving

1. I.S. EN ISO 24801-1: 2014 - Recreational Diving Services - Requirements for the Training of Recreational SCUBA Divers - Part 1: Level 1 - Supervised Diver.
2. I.S. EN ISO 24801-2: 2014 - Recreational Diving Services - Requirements for the Training of Recreational SCUBA Divers - Part 2: Level 2 - Autonomous Diver.
3. I.S. EN ISO 24801-3: 2014 - Recreational Diving Services - Requirements for the Training of Recreational SCUBA Divers - Part 3: Level 3 - Dive Leader.
4. I.S. EN ISO 24802-1: 2014 - Recreational Diving Services - Requirements for the Training of SCUBA Instructors - Part 1: Level 1.
5. I.S. EN ISO 24802-2: 2014 - Recreational Diving Services - Requirements for the Training of SCUBA Instructors - Part 2: Level 2.
6. I.S. EN 14467: 2004 – Recreational Diving Services – Requirements for Recreational SCUBA Diving Service Providers.

British Standards

The following is a non-exhaustive list of British Standards that are also relevant to diving and work tasks carried out underwater.

Air Quality Standard

1. BS 8478: 2011 – Respiratory Protective Devices. Breathing Gases for Diving and Hyperbaric Applications. Requirements and Test Methods.

Diving Accessories

1. BS 4532:1969 – Specification for Snorkels and Face Masks.
2. BS 5883:1996 – Specification for Surface Swimming Goggles.

Diving Cylinders

1. BS 341-1: 1991- Transportable Gas Container Valves: Specification for Industrial Valves for a Working Pressure up to and Including 300 bar.
2. BS 5045 – 6: 1987 – Transportable Gas Containers – Part 6: Specification for Seamless Containers of Less than 0.5 Litre Water Capacity.
3. BS 5045 – 7:2000 – Transportable Gas Containers – Part 7: Specification for Seamless Steel Gas Containers of Water Capacity 0.5L up to 15L for Special Portable Applications.
4. BS 5045 – 8: 2000 – Transportable Gas Containers – Part 8: Specification for Seamless Aluminium Alloy Gas Containers of Water Capacity 0.5 L up to 15 L and up to 300 bar Charged Pressure at 15°C for Special Portable Application.

Hyperbaric Welding

1. BS 4515-1:2009 – Specification for Welding of Steel Pipelines on Land and Offshore Carbon and Carbon Manganese Steel Pipelines.

Oxygen Cleaning Standard

1. BS IEC 60877: 1999 – Procedures for Ensuring the Cleanliness of Industrial Process Measurement and Control Equipment in Oxygen Service.