





Summary of IMCA D 018 Document Changes 2021

IMCA D 018 Rev. 1 Code of practice for the initial and periodic examination, testing and certification of diving plant and equipment was published in June 2014. The latest revision of IMCA D 018 has now been published (Rev. 2). This Information Note summarises the changes that were made during the Rev. 1 to Rev. 2 update process.

Table 1 – Summary of Changes Made to IMCA D 018 During 2021 DESIGN Revision

	Location of Items in IMCA D 018 Rev. 1 Edition	Summary of Changes Made	Reason
1.	IMCA D 018; Detail Sheet 5.3 Personal Breathing Apparatus (used under water).	Text of Note revised to read: "Note: This includes primary breathing systems e.g. helmets, bandmasks and full-face masks; open circuit bailout systems (including first-stage regulators), and rebreathers as a primary or bail-out system, but does not include supply systems pipework, pressure testing or the cylinders". Validity period for inspection and testing in line	To cover all divers' personal breathing apparatus including first stage regulators and rebreathers.
		with manufacturers' recommendations changed to "Ongoing".	
		References to NORSOK U-101 and BS 8547 added together with explanatory notes.	
2.	IMCA D 018; Detail Sheets 9.1; 9.2; 10.1; and 10.3 Cylinder Testing.	Text revised to: 1. amend cylinder testing periodicities to bring them into better alignment with internationally recognised standards. In particular with respect to requirements for 2.5 yearly internal and external visual examinations and 5 yearly hydraulic overpressure tests; and 2. introduce references to ISO 18119 (which replaces ISO 6406:2005).	 To align with recognised international standards; To update references to a recognised international standard.
3.	IMCA D 018; Detail Sheet 11 Electrical Equipment.	Updated to include the option of carrying out examinations/tests in accordance with a detailed electrical testing schedule prepared by a competent person.	To allow companies with modern complex diving systems to create their own electrical testing procedures and methodologies in line with the recommendations of competent persons.
4.	IMCA D 018; Detail Sheets 18 Depth Gauges; 19 Life Support Gauges; and 20 Indicating Gauges.	Text revised to include the following note: "The frequency and nature of the calibration of pressure sensors and gauges integral to automated functions may be defined in a scheme prepared by a competent person".	To allow companies with modern complex diving systems to define the frequency and nature of the calibration of pressure sensors and gauges integral to automated functions in line with the

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	Location of Items in IMCA D 018 Rev. 1 Edition	Summary of Changes Made	Reason
			recommendations of competent persons.
5.	IMCA D 018; Detail Sheet 22.1 Lifting Appliances and Equipment used for Man- Riding.	Detail Sheet 22.1 requirements updated to reduce the need for overload testing where practicable.	To reduce the need for overload testing.
6.	IMCA D 018; Detail Sheet 23 Lifting Appliances and Equipment (not used for Man-Riding).	Text revised to read: Examination/Test Load test at 1.5 times maximum SWL in the last 12 months or carry out alternative examination/testing as required by the competent person (CP) Validity Period 12 months or ongoing for CP scheme	To introduce the alternative of undertaking examination/testing as required by the competent person.
7.	IMCA D 018; Detail Sheet 24.1 Pipework Systems, Valves, Regulators and Relevant Fittings.	Validity period of gas (or fluid) leak tests at maximum working pressure of systems confirmed as 2.5 years.	To align with the IMCA D 018 chamber pressure testing regime (Detail Sheets 25.1 & 26).
8.	IMCA D 018; Detail Sheet 24.2 Oxygen System Pipework, Valves, Regulators and Relevant Fittings.	Validity period of gas leak tests at maximum working pressure of the oxygen systems changed from 2 years to 2.5 years.	To align with the IMCA D 018 chamber pressure testing regime (Detail Sheets 25.1 & 26).
9.	IMCA D 018; Detail Sheet 25.2 Viewports Used in Pressure Vessels for Human Occupancy	Reference to a 'When new' 1.25 times maximum rated working pressure test removed.	To advocate pressure testing in accordance with the design standard of the chamber and/or a suitable viewport manufacturing code such as ASME PVHO-1.
10.	IMCA D 018; Detail Sheet 26 Welded Pressure Vessels (not for Human Occupancy)	Detail Sheet 26 internal overpressure test requirement removed.	To reduce the need for overload testing.
11.	IMCA D 018; Detail Sheet 29.1 Wire Rope & Terminations.	Detail Sheet 29.1 updated to: 1. align with the guidance contained in Wire rope integrity management for vessels in the offshore industry (IMCA LR 001, IMCA SEL 022, IMCA M 194), especially Sections 9.4 Socketing and 13 Diving Bell Hoist Wire Ropes; 2. change the requirements for six-monthly function testing and load testing at SWL with requirements to carry out this testing at the working weight of the basket/bell rather than at SWL; 3. adjust the re-termination testing requirement to remove the need for overload testing.	To maintain the consistency of IMCA guidance and remove the need for overload testing following re-termination.
12.	IMCA D 018; Detail Sheet 35 <i>Diver Harnesses</i> .	Text of thorough pre-dive and post-dive visual examination revised to include all lift points.	To clarify acceptance criteria.

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	Location of Items in IMCA D 018 Rev. 1 Edition	Summary of Changes Made	Reason				
		2. Addition of the following note: "Any modifications, e.g. cutting off leg straps, punching extra holes in webbing etc. will make the harness unfit for use."					
New D	New Detail Sheets for IMCA D 018 Rev. 2 Edition						
13.	IMCA D 018; New Detail Sheet 36 for Rev. 2 Lifting Appliances and Equipment used in Closed Bell Diver Rescue Recovery Systems.	New sheet added.	To cover lifting appliances and equipment used in closed bell diver rescue recovery systems.				
14.	IMCA D 018; New Detail Sheet 37 for Rev. 2 Backup / Emergency Power Sources.	New sheet added.	To cover backup / emergency power sources for diving systems, including Uninterruptable Power Supply (UPS) units, emergency generators, and stored hydraulic / pneumatic power systems.				

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