

ISO 15618-1:2016-09 (E)

Qualification testing of welders for underwater welding - Part 1: Hyperbaric wet welding

Contents		Page
Foreword		v
Introduction		vi
1	Scope	1
2	Normative references	1
3	Terms and definitions	2
4	Symbols and abbreviations	2
4.1	General	2
4.2	Test piece	2
4.3	Filler materials and fluxes	3
4.4	Miscellaneous	3
5	Essential variables for qualification testing	3
5.1	General	3
5.2	Welding processes	3
5.3	Joint types (butt and fillet welds)	4
5.4	Material groups	4
5.5	Filler materials and fluxes	4
5.6	Dimensions	4
5.7	Welding positions	5
5.8	Hyperbaric environment	5
5.9	Visibility	5
6	Range of qualification	5
6.1	General	5
6.2	Welding process	5
6.3	Joint types	6
6.4	Material groups	6
6.5	Filler materials	7
6.6	Dimensions	7
6.7	Welding positions	7
6.8	Hyperbaric environment	7
7	Examination and testing	9
7.1	General	9
7.2	Witnessing	9
7.3	Shapes and dimensions of test pieces	9
7.4	Welder-diver qualification test criteria	11
7.5	Test methods	11
7.6	Test pieces and test specimens	12
7.6.1	General	12
7.6.2	Butt welds in plate and pipe	12
7.6.3	Fillet welds on plate and pipe	13
7.7	Test report	15
8	Acceptance requirements for test pieces	15

9	Re-tests	15
10	Period and confirmation of validity	15
11	Revalidation of welder-diver qualification	16
12	Welder-diver qualification test certificate	16
13	Designation	16
	Annex A (informative) Welder-diver qualification test certificate for hyperbaric wet welding	18
	Annex B (informative) Job knowledge	20
	Bibliography	23