



# CERTIFICATE

**BAM/ZBF/009/12** (9<sup>th</sup> Revised version)

Hereby it is confirmed by the BAM Certification Body, that the

## Safety devices and quick-action couplings

of the certificate holder

**Wilhelmsen Ships Service AS**  
**Strandvn 20, Lysaker**  
**NO\_1324 LYSAKER**  
**NORWAY**

meet the requirements of meet the requirements of the standards:

<b>DIN EN ISO 5175-1:2018</b>	"Gas welding equipment - Safety devices - Part 1: Devices incorporating a flame (flashback) arrestor"
<b>DIN EN 561:2002</b>	"Gas welding equipment - Quick-action couplings with shut-off valves for welding, cutting and allied processes"
additionally in compliance with the BAM-standard operating procedures	
<b>BAM-StAA-SE-16</b>	"Test for resistance to solvents for non-metallic materials" dated 14.11.2017
<b>BAM-StAA-SE-18</b>	"Test for resistance to ageing in oxygen for non-metallic materials" dated 12.04.2018
<b>BAM-StAA-SE-19</b>	"Test of pressure-sensitive cut-off valve for quick opening" dated 8.12.2020

The contract No. **BAM-ZBF-0006-2022-Wilhelmsen Ships** forms the basis for this certification. The terms and conditions for monitoring of the products are also stipulated in this contract.

The products certified by BAM may be labelled with the BAM certification mark „BAM Geprüft und überwacht“ and/or “BAM Certified and under surveillance“ together with the certificate number.

**The certificate is valid until 31. December 2024.**

**Bundesanstalt für Materialforschung und -prüfung (BAM)**

Unter den Eichen 87, 12205 Berlin, **2023-08-04**

By order  
Dr. Stephan Aris  
BAM-Certification Officer and BAM-Assessor

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This certificate consists of 1 page and 1 Annex.

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## Annex: Products of Company Wilhelmsen Ships Service AS within the scope of Certificate No. BAM/ZBF/009/12, 9<sup>th</sup> Revised version

### 1 Safety devices according to DIN EN ISO 5175-1:2018

The safety devices listed below comply with the requirements of DIN EN ISO 5175-1:2018, at the operating conditions specified in the following table.

Furthermore, the safety devices listed below comply with the extensions of paragraph 4.2 "Materials" of DIN EN ISO 5175-1:2018, which are specified within the following BAM Standard Operating Procedures

- BAM-StAA-SE-16 "Test for resistance to solvents for non-metallic materials" dated 14.11.2017 and
- BAM-StAA-SE-18 „Test for resistance to ageing in oxygen for non-metallic materials“ dated 12.04.2018.

Furthermore, the listed safety devices insofar applicable fulfill the BAM Standard Operating Procedure

- BAM-StAA-SE-19 „Test of pressure-sensitive cut-off valve for quick opening“ dated 8.12.2020

Additionally, the non-metallic materials were positively tested for the application in gaseous oxygen, for the maximum working overpressures listed below (testing for reactivity with oxygen under the influence of oxygen pressure surges).

#### Type series "Super"

Type and/or design	max. connectable inner tube/hose diameter in mm	Product number	max. working overpressure in MPa (labelled)				
			acetylene	propane	methane	O <sub>2</sub> / compressed air	H <sub>2</sub>
Unitor S-55 AC	10	708537	0.15	0.5	0.5		0.3
Unitor S-55 OX		708545				1.5	
Unitor W-66 S	10	708554	0.2*	0.5	0.5		0.5
Unitor W-66 S		708550				1.0	

\* In DIN EN ISO 5175-1:2018 the max. test pressure for acetylene is 0,15 MPa, therefore the test with 0,2 MPa acetylene was carried out not according but "in the style" of DIN EN ISO 5175-1:2018.

#### Type series "85-10"

Type and/or design	max. connectable inner tube/hose diameter in mm	Product number	max. working overpressure in MPa (labelled)				
			acetylene	propane	methane	O <sub>2</sub> / compressed air	H <sub>2</sub>
Unitor W-85-10 AC	10	585372	0.15	0.5	0.5		0.4
Unitor W-85-10 OX		682427				2.5	

## 2 Quick-action couplings according to EN 561:2002

The quick-action couplings listed in the following meet the requirements of DIN EN 561:2002, at the operating conditions specified in the following table.

The compliance with the requirements of paragraph 6.5, is extended within BAM Standard Operating Procedures

- BAM-StAA-SE-16 "Test for resistance to solvents for non-metallic materials" dated 14.11.2017 and
- BAM-StAA-SE-18 „Test for resistance to ageing in oxygen for non-metallic materials“ dated 12.04.2018.

Additionally, the non-metallic materials were positively tested for the application in gaseous oxygen, for the maximum working overpressures listed below (testing for reactivity with oxygen under the influence of oxygen pressure surges).

### Type series "Unitor Quick Coupling"

Type and/or design	max. connectable inner tube/hose diameter in mm	Product number	max. working overpressure in MPa (labelled)		
			fuel gases	acetylene	oxygen
Unitor Quick Coupling	10	734007	2.0	0.15	
		734016			
		734004			
		734013			
		734025			
Unitor Quick Coupling	10	734001			2.0
		734010			
		734019			
		734022			
		734028			