



# Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

This certificate supersedes certificate number 93/20049(E4) issued on 04.12.2013 which is hereby cancelled.

This certificate is issued to:

<b>PRODUCER</b>	VOSS Fluid GmbH Lüdenscheider Straße 52-54 51688 Wipperfürth Germany	
<b>DESCRIPTION</b>	Steel or stainless welding nipples with O-ring seal used in lieu of cutting ring connectors.	
<b>TYPE</b>	VOSS Welding Couplings	
<b>APPLICATION</b>	General use in marine, offshore and industrial piping systems. <u>Restrictions:</u> 1. starting/control air and CO2 systems. 2. inside machinery spaces of category A or accommodation spaces for inert gas main lines 3. fire extinguishing systems which are not always filled with water	
<b>STANDARD</b>	LR Rules and Regulations for the Classification of Ships, July 2018	
<b>RATINGS</b>	Pipe outside diameter (mm)	Nominal pressure (bar)
	6 to 14	315 to 500
	16 to 20	250 to 400
	25	315 to 400
	30	250 to 400
	38	250 to 315
<b>Certificate No.</b>	<b>93/20049 (E5)</b>	
<b>Issue Date</b>	26 February 2019	
<b>Expiry Date</b>	31 July 2023	
<b>Sheet</b>	1 of 2	



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LR031.1.2016.06

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**PERFORMANCE TESTS** Repeated assembly, leakage, burst pressure, hydraulic impulse and vibration, flame resistance.

**OTHER CONDITIONS** The welding nipples are to be selected and installed as per producer's recommendations and instructions.

*The Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations.*

*If the specified standards are amended during the validity of this certificate, the product is to be re-approved prior to it being supplied to vessels to which the amended standards apply.*

*The Design Appraisal Document No. HMD 13340-04, Issue No. 4, dated 26.02.2019 and its supplementary Type Approval Terms and Conditions form part of this Certificate.*

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