


## Type Approval Certificate Extension

*This is to certify* that Certificate No. 93/20049 (E3) for the undernoted products is extended and renumbered as shown.

This certificate is issued to:

PRODUCER	VOSS Fluid GmbH Lüdenscheider Straße 52-54 51688 Wipperfürth Germany													
DESCRIPTION	Steel or stainless welding nipples with O-ring seal used in lieu of cutting ring connectors.													
TYPE	VOSS Welding Couplings													
RATINGS	<table><tr><td>Pipe outside diameter (mm)</td><td>Nominal pressure (bar)</td></tr><tr><td>6 to 14</td><td>315 to 500</td></tr><tr><td>16 to 20</td><td>250 to 400</td></tr><tr><td>25</td><td>315 to 400</td></tr><tr><td>30</td><td>250 to 400</td></tr><tr><td>38</td><td>250 to 315</td></tr></table>	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	
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													
APPLICATION	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													
STANDARD	Lloyd's Register Rules and Regulations for the Classification of Ships, July 2013.													
Certificate No.	93/20049 E4)													
Issue Date	04 December 2013													
Expiry Date	31 July 2018													
Sheet	1 of 2													

  
Torsten Schröder



Torsten Schröder  
Hamburg Technical Support Office  
Lloyd's Register EMEA

Lloyd's Register EMEA  
71 Fenchurch Street, London EC3M 4BS

<b>PERFORMANCE TESTS</b>	Repeated assembly, leakage, burst pressure, hydraulic impulse and vibration, flame resistance.
<b>OTHER CONDITIONS</b>	The welding nipples are to be selected and installed as per producer's recommendations and instructions.

*"This Certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid certificate."*

*The attached Design Appraisal Document No. HMD 13340-04, Issue Number 2, dated 04.12.2013 and its supplementary Type Approval Terms and Conditions form part of this Certificate.*

All other details remain as the previous Certificate No. 93/20049 (E3) to which this extension should be attached.

<b>Certificate No.</b>	93/20049 E4)
<b>Issue Date</b>	04 December 2013
<b>Expiry Date</b>	31 July 2018
<b>Sheet</b>	2 of 2

  
Torsten Schröder  
Hamburg Technical Support Office  
Lloyd's Register EMEA

Lloyd's Register EMEA  
71 Fenchurch Street, London EC3M 4BS