

Type Approval Certificate Extension

This is to certify that Certificate No. 92/ 00041(E6) for the undernoted products is extended and renumbered as shown.

This certificate is issued to:

PRODUCER	Blücher Metal A/ S
PLACE OF PRODUCTION	Pugdalsvej 1 DK-7480 Vildbjerg Denmark
DESCRIPTION	Stainless Steel Sanitary Pipe System / EuroPipe
TYPES	470, 471, 472, 473, 474, 475, 479, 480, 485, 490, 491, 502, 503, 505, 525, 610, 611, 811, 820, 821, 830, 831, 832, 834, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 847, 850, 854, 855, 866, 867, 868, 869, 870, 872, 873, 874, 878, 885 & 886
RATINGS	Pipe diameter 40 - 200 mm outside dia. Temperature range - 40 to +100°C
APPLICATION	<ol style="list-style-type: none"> 1. For use in non-pressurised and vacuum sanitary discharge systems above the freeboard deck and in enclosed spaces, but not leading overboard below the freeboard deck. 2. May also be used below the freeboard deck in systems that do not cross watertight bulkheads. 3. The pipe penetrates a watertight bulkhead, it should be fitted with a remote operated valve at each watertight bulkhead. The valve is to be controlled from outside the damage zone of the ship.

Certificate No.	92/ 00041(E7)
Issue Date	26 July 2017
Expiry Date	25 July 2022
Sheet	1 of 2



M.H.M.Rila
Southampton Technical Support Office
Marine & Offshore Lloyd's Register

Lloyd's Register EMEA
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APPLICATION (continued)	4. Also as tank vent pipes from non-pressurised tanks (tanks that cannot be pumped up), but not from structural tanks below the freeboard deck, or tanks that contain flammable fluids.
SPECIFIED STANDARDS	Lloyd's Register's Rules and Regulations for the Classification of Ships; Blücher Specification and Product Catalogue 2000.01.16; 25006;
OTHER CONDITIONS	<ol style="list-style-type: none"> 1. Pipes and fittings are to be selected, installed and tested in accordance with the manufacturer's instructions and recommendations. 2. The integrity of watertight bulkheads, fire division and shell plating are not to be impaired. 3. The piping system is not to be utilised where high amplitude and rapid pulsation of pressure are anticipated.

"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. 92/00041(E7) and its supplementary Type Approval Terms and Conditions form part of this Certificate

All other details remain as the previous Certificate No. 92/ 00041(E6) to which this extension should be attached.

Certificate No.	92/ 00041(E7)
Issue Date	26 July 2017
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**Lloyd's
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Lloyd's Register EMEA (London Office)

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Issue number 1

DESIGN APPRAISAL DOCUMENT

Date 26 July 2017	Quote this reference on all future communications SOUTSO/ENG/MR/WP29830172
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LLOYD'S REGISTER TYPE APPROVAL SYSTEM, 2015.

Issued to: BLÜCHER METAL A/S

**for: EUROPIPE STAINLESS STEEL SANITARY PIPE SYSTEM/ EUROPIPE
TYPE APPROVAL CERTIFICATE No. 92/00041(E7)**

The undernoted documents have been reviewed for compliance with the requirements of the Lloyd's Register Type Approval System, 2015 and this Design Appraisal Document forms part of the Certificate.

1. <u>Approval documentation</u>	
Request for Type Approval quotation 2571	27 th June 2017
Production Quality Assessment Form; CPN 1720616	20 th July 2017
Quality Management System ISO 9001/2008	157639-2014-AQ-DEN-DANAK

2. <u>Test Reports</u>	
1.1.	DNV EC Type Examination Certificate Number; MED-B-8614
1.2.	DNV EC Type Examination Certificate Number; MED-B-8885
1.3.	DNV-GL EC Type Examination Certificate Number; MED-B-9545
1.4.	DANISH TECHNOLOGICAL INSTITUTE TYPE TEST; Ord. No. 412491-1
1.5.	CUMarine Catalogue; 2000.01.16; 25006

Previous documentation as listed in Design Appraisal Documents 92/00041, 92/00041(E1), 92/00041(E2), 92/00041(E3), 92/00041(E4), 92/00041(E5) & 92/00041(E6)



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Supplementary Type Approval Terms and Conditions

Type Approval certifies that a representative sample of the product(s) referred to herein has/have been found to meet the applicable design criteria for the use specified herein. It does not mean or imply approval for any other use, nor approval of any product(s) designed or manufactured otherwise than in strict conformity with the said representative sample.

Type Approval is based on the understanding that the manufacturer's recommendations and instructions and any relevant requirements of the Rules and Regulations are complied with.

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

Lloyd's Register EMEA reserves the right to cancel or withdraw this Type Approval Certificate in accordance with the Lloyd's Register Type Approval System Procedure.



M.H.M.Rila,
Specialist, Engineering Systems
Southampton TSO, Lloyd's Register EMEA.