



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.

Manufacturer	Blücher Metal A/S
Address	Pugdalsevej 1, Vildbjerg, 7480, Denmark
Type	Pipes and Fittings
Description	TYPES: 470, 471, 472, 473, 474, 475, 479, 480, 485, 490, 491, 499, 502, 503, 505, 525, 610, 611, 811, 820, 821, 822, 825, 830, 831, 832, 834, 836, 837, 838, 839, 840, 840.001, 841, 842, 843, 844, 845, 847, 850, 854, 855, 859, 866, 867, 868, 869, 870, 872, 873, 874, 875, 876, 878, 885 & 886 670 MarineLine Channel 672 MarineLine Channel 660 MarineLine Channel 662 MarineLine Channel 651 MultiLine Channel 178 WaterLine Channel 275 WaterLine Channel 699 Special channels with push/fit connection
Trade Name	Stainless Steel Sanitary Pipe System/ EuroPipe including ball valves
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 bellow the freeboard or bulkhead deck.2. May also be used below the freeboard or bulkhead deck in systems that do not cross watertight bulkheads.3. Where the pipe penetrates a watertight bulkhead, it should be fitted with a

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remote operated valve at each watertight bulkhead. The valve is to be controlled from outside the damage zone of the ship.

4. Also as tank vent pipes from non-pressurised tanks (tanks that cannot be pumped up), but not from structural tanks below the freeboard/bulkhead deck, or tanks that contain flammable fluids.

5. Outside drainage (Scuppers and pipes which are located on weather decks or balconies).

6. Food waste systems (Scupper and pipes which are located on weather decks or balconies).

Specified Standard Lloyd's Register Rules and Regulations for the Classification of Ships July 2024
EN 1124
Blucher Specification and Product Catalogue (October 2022 – 25094)

Ratings Outside diameter from 40 mm to 200 mm
Temperature (Minus) - 40 to +100°C

Additional Tests pressure (3 bar) and vacuum (-0.85 bar) tested

Other Conditions

1. Pipes and fittings are to be selected, installed and tested in accordance with the manufacture'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.

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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.

Previous Version: LR22419510TA-01

The Design Appraisal Document TSO/24-022492-P-1 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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