

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	Gates Tube Fittings GmbH															
Address	Kolumbusstrasse 54, Euskirchen, 53881, Germany															
Type	Compression Fittings															
Description	General purpose stainless steel pipe compression fittings with EMB cutting ring without elastomer-type seal															
Trade Name	EMB DS-Ring, Series L and S,															
Application	General use in marine, offshore and industrial piping systems classed or intended for Classification with Lloyd's Register															
Specified Standard	Lloyd's Register Rules and Regulations for the Classification of Ships, July 2021 and Works Standard															
Ratings	<table><thead><tr><th></th><th>Pipe O.D. (mm)</th><th>Nom. Pressure (bar)</th></tr></thead><tbody><tr><td rowspan="2">L (light)</td><td>6 to 18</td><td>315</td></tr><tr><td>22 to 42</td><td>160</td></tr><tr><td rowspan="3">S (heavy)</td><td>6 to 14</td><td>630</td></tr><tr><td>16 to 30</td><td>400</td></tr><tr><td>38</td><td>315</td></tr></tbody></table>		Pipe O.D. (mm)	Nom. Pressure (bar)	L (light)	6 to 18	315	22 to 42	160	S (heavy)	6 to 14	630	16 to 30	400	38	315
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Torsten Schroeder

Senior Specialist to Lloyd's Register EMEA
A member of the Lloyd's Register group

71 Fenchurch Street, London, EC3M 4BS, United Kingdom

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Temperature Range : -60°C to +20°C*

*for temperatures up to 400°C pressure deductions apply as per producer's instructions and recommendations

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: 91/20211(E6)

The Design Appraisal Document HMD 6656-01, Issue Number 5 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

Appendix

PLACE OF PRODUCTION Gates Tube Fittings GmbH
Escher Heide 2-4
53902 Bad Münstereifel
Germany

