



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	Pekos fabricación S.L.U.																												
Address	Poligono Bidosola K3, Artea (Bizkaia), 48142, Spain																												
Type	Cryogenic Ball Valves																												
Description	<p>Cryogenic, Split Body, Floating Ball Valves ½" - 4" Class 150-300 6" - 8" Class 150 DN15-125 PN16-25-40 DN150-200 PN16 Temperature range (°C): -196 to +200</p> <p>Cryogenic, Full Trunnion Ball Valves 1½" - 24" Class 150-300-600 DN40-600 PN10-100 Temperature range (°C): -196 to +120</p> <p>3 Pieces Forged Ball Valves, Full Bore and Reduced Bore. Full Bore Valves Qualification by pressure/size</p> <table><thead><tr><th>Size</th><th>ANSI Class</th><th colspan="2">Nominal Ratings</th></tr></thead><tbody><tr><td>¼" - 1 ½"</td><td>CL800</td><td>DN6-DN40</td><td>PN138</td></tr><tr><td>2" - 2 ½"</td><td>CL600</td><td>DN50-DN65</td><td>PN100</td></tr><tr><td>3"</td><td>CL400</td><td>DN80</td><td>PN40</td></tr></tbody></table> <p>Reduced Bore Valves Qualification by pressure/size</p> <table><thead><tr><th>Size</th><th>ANSI Class</th><th colspan="2">Nominal Ratings</th></tr></thead><tbody><tr><td>½"- 2"</td><td>CL800</td><td>DN15-DN50</td><td>PN138</td></tr><tr><td>2 ½"- 3"</td><td>CL600</td><td>DN50-DN80</td><td>PN100</td></tr></tbody></table>	Size	ANSI Class	Nominal Ratings		¼" - 1 ½"	CL800	DN6-DN40	PN138	2" - 2 ½"	CL600	DN50-DN65	PN100	3"	CL400	DN80	PN40	Size	ANSI Class	Nominal Ratings		½"- 2"	CL800	DN15-DN50	PN138	2 ½"- 3"	CL600	DN50-DN80	PN100
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4" CL400 DN100 PN40
Temperature range (°C): -196 to +120

Application	Cryogenic ball valves for use in LNG/LPG carriers, marine and offshore applications, and land based cold store applications
Specified Standard	LR Rules and Regulations for the Classification of Ships LR Rules for Ships for Liquefied Gases LR Rules and Regulations for the Classification of Refrigerated Stores, Container Terminals and Process Plant; API 598 BS6364 BS6775-1 EN12266-1 ISO 5208
Other Conditions	<ol style="list-style-type: none">1) The valves are to be suitable for the design pressure of that part of the piping system in which they are to be fitted.2) The use of the valves in pipework systems in LR Classed LNG/carriers, refrigerated cargo ships or cold/ chill stores also require to be installed to the satisfaction of LR Surveyors and in accordance with the relevant Rules and Codes.3) When used on an LR Classed installation, materials are to be sourced from LR approved works

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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: 02/00064(E3)

The Design Appraisal Document LR22411040TA and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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