

## Fugitive Emissions Certificate: 8110859171-500-22

This is to certify that the NPS 2 (DN 50) Class 1500 Cryogenic Gate Valve

Manufactured and Tested by

**M/s. L&T Valves Limited**

(Post Bag No. 976, Mount Poonamallee Road, Manapakkam,

Chennai - 600089, India)

as per Fugitive Emission standard ISO 15848 - Part 1, First Edition 2006, is ranked as

**ISO FE BH - CO<sub>2</sub> - SSA 0 - t (-196 °C) - CL1500 - ISO 15848-1**

Valve details	NPS 2 (DN 50), Class 1500, Cryogenic Gate Valve (Stem diameter: 25.4 mm)	
Stem Seal	6 Braided Graphite split rings (Teadit Style 2236)	
Body Seal	Ring type joint (SS 316)	
Test Conditions	Fluid	Helium
	Pressure	248.2 bar / 248.2 bar
	Temperature	RT/ -196 °C
	Test method	Vacuum Method (Annex A of ISO 15848 Part-1) Sniffing Method (Annex B of ISO 15848 Part-1)
Test Results	Tightness class	BH
	Endurance class	CO <sub>2</sub>
	No. of mechanical cycles	1500
	No. of thermal cycles	3
	Number of stem seal adjustments (SSA)	0
Qualification extension	Stem diameters qualified (50% lower and 200% higher)	Cryogenic Gate Valves with Stem diameters ranging from 12.7 mm to 50.4 mm
	Size/Class qualified	Classes 150, 300, 600, 900 & 1500 (Sizes covering Stem diameters 12.7 mm to 50.4 mm)

This Certificate shall be valid in conjunction with test report No LTVFEISOGGC-029 dated 08/08/2014.

28<sup>th</sup> May 2018



I.S. Madhavan  
For self & on behalf of Mr. P. Raghuraman  
(Surveyor to TUV India)



Note: This certificate is revalidated on 28.05.2018 based on the earlier certificate no 8110859171-500-22 dated 8<sup>th</sup> Aug 2014