

Fugitive Emissions Certificate: 8110795127-PV01

This is to certify that the NPS 3 (DN 80) Class 2500 Trunnion Mounted Ball Valve
Manufactured and Tested by

M/s. L&T Valves Limited

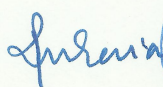

(Post Bag No. 976, Mount Poonamallee Road, Manapakkam,
Chennai - 600089, India)

as per Fugitive Emission standard ISO 15848 - Part 1, First Edition 2006, is ranked as
ISO FE AH - CO₂ - SSA 0 - t (200 °C) - CL2500 - ISO 15848-1

Valve details	NPS 3 (DN 80), Class 2500, Trunnion Mounted Ball Valve (ASTM A352 GR.LCB)	
Stem Seal	1 "O" ring and 4 Graphite rings (Stem diameter: 42 mm)	
Body Seal	Solid graphite gasket	
Test Conditions	Fluid	Helium
	Pressure	400 bar / 354 bar
	Temperature	RT/ 200 °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	AH
	Endurance class	CO ₂
	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)	Trunnion Mounted Ball Valves with Stem diameters ranging from 21 mm to 84 mm
	Size/Class qualified	Classes 150, 300, 600, 900, 1500 & 2500 (Sizes covering Stem diameters 21 mm to 84 mm)

This Certificate shall be valid in conjunction with test report No. LTVFEISOTMBV-006 dated 23/12/2013.

27th December 2013

P. Venkatamahalakshman
(Surveyor to TUV India)