

# TEST WITNESS REPORT

**Report. No: O-EM-VERI/19/TC550732/12257 Rev 0**

## **BHOLA ENGINEERS PVT LTD**

Office: Bhola Engineers Pvt. Ltd., Plot No: 57, Apple Industrial Hub, National Highway No: 08, Near Nallasopara Phata, Pelhar, Vasai (E) – 401208, Palghar, Maharashtra, INDIA	Works: Bhola Engineers Pvt. Ltd., Plot No: 57, Apple Industrial Hub, National Highway No: 08, Near Nallasopara Phata, Pelhar, Vasai (E) – 401208, Palghar, Maharashtra, INDIA
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The under mentioned surveyor did visit the facilities, upon request, of the above manufacturer, Instrumentation Valves & Manifolds, between 24<sup>th</sup> June 2019 to 23<sup>rd</sup> August 2019, for witnessing the "Burst Test", mentioned below, conducted on undermentioned sizes of Various Types of Valves, detailed as below:

### **Model Numbers and Sizes of Valves Selected for Testing**

Sr No	Sizes	Model Numbers	Samples Selected
1	1/4" Instrumentation Valves	NA04E B04E BJ310101	Quantity-03 Nos for each size According to Clause 5.5 & 5.6 of MSS SP 99 [2016]
2	3/8" Instrumentation Valves	NA06E B06E BJ310101	
3	1/2" Instrumentation Valves	NA08E B08E BJ310101	
4	3/4" Instrumentation Valves	NA12E B12E BJ310101	
5	1" Instrumentation Valves	NA16E B16E BJ310101	
6	1-1/2" Instrumentation Valves	NA18E B18E BJ310101	
7	2" Instrumentation Valves	NA19E B19E BJ310101	

### **Test Parameters used for above Valves are as given below**

Sr No	Test Parameters	Quantity Selected: 03 Nos for each size as per Clause 5.5 & 5.6 of MSS SP 99 [2016]
1	Test Temperatures During Testing: 15° C to 35° C	
2	Test Pressure Retained within $\pm$ 5% psig	
3	Test Medium; Demineralised Water	
4	Mechanical Test carried out at NABL Approved Lab	

### **Following Tests were conducted as per MSS SP 99 [2016]**

Sr No	Activities Carried Out	References [MSS-SP-99-2016]
1	Selection of Test Samples: Witnessed	Valve Testing Report BEPL-TTR-02
2	Material Properties: MTC's Reviewed	MTC's as per Clause 3 thru' 4 [MSS-SP-99-2016]
3	Hydrostatic Proof Test: Random Witnessed	Calculation of Tensile Strength [Clause 5.7]
4	Burst Test: Witnessed	Report No: BEPL-TTR-02, Clause 5.6 MSS SP 99

*Notice: The certificate is subject to terms and conditions overleaf. Any significant changes in design or construction may render this certificate invalid.  
The digitally signed and electronically distributed document is the original and valid certificate.*

**CONCLUSIONS:**

[1] Results of all the Tests Performed were found to be Satisfactory, in line with MSS SP 99 [2016]

[2] The details of applicable test pressures with reference to various tests mentioned above have been reviewed and endorsed by DNV GL [Oil & Gas]

[3] The above-mentioned Valves meet the requirements of MSS SP 99 [2016], with reference to Mandatory Tests mentioned in the Specifications and conducted herein.

DNV GL Project No: TC550732  
 Place of Issue: Pune  
 Location of Test: Vasai [East]  
 Works  
 Date of Issue: 2019-09-31



Witnessed by

*G.I. Sindgi*  
 G.I. Sindgi

Gaus Ibrahim Sindgi  
 Senior Surveyor &  
 Service Lead [PED]  
 DNV GL [Oil & Gas]