



Surveyor's Attendance Sheet/ Time Sheet

BV File No. IND.M.4.14.0490

BV ZIG NO: _____

BV Client: M/s. Reynold Valves Ltd, Tarapur, Boiser.

Vendor: M/s. Reynold Valves Ltd. Tarapur, Boiser.

Contracting Centre: BVIL-Mumbai

Performing Centre: BVIL-Mumbai

PROJECT/ P.O. on BV: OA dtel. 15/05/2014

Client's P.O. on Vendor: PG/12/77/223 Amd. 03 dtel. 24/09/2012
CR Engg to Reynold Valves)

Surveyor's name	Date of visit	Inspection Place	Manday/Hours (Insp.+ Travel)	Actual KMs Travelled If Insp. Place > 50KM.
Mr. Gajanan Sagle	20/05/2014	M/s. Reynold Valves Ltd.	01 manday	—
		Tarapur, Boiser		

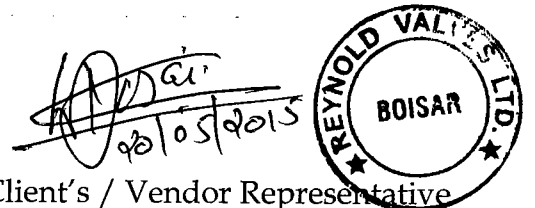


Gajanan
20/05/14

Surveyor Name & Signature

Mr. Gajanan M. Sagle

Mob:9004374225



[Signature]
20/05/2014

Client's / Vendor Representative
(Signature/Name/Stamp)



Interim
 Final

INSPECTION REPORT Nr: RVL/MUM/LTT/IR/01

BV Job nr: IND.M.4.14.0490


ORIGINAL

BV Client: M/s. Reynold Valves Ltd., Boiser, Tarapur	P/o nr: Order Acceptance Dtd.15/05/2014 (Client to BV)
Manufacturer: M/s. Reynold Valves Ltd., Boiser, Tarapur	P/o nr: ----- (Client to Manufacturer)
Inspection requested by: M/s. Reynold Valves Ltd., Boiser, Tarapur	

SUPPLY / SUBJECT OF INSPECTION	ITEM / TAG Nr	QTY
BALL Valve full bore 4" 300# RF Flanged End (PROTO TYPE LTT) BODY: ASTM A352 Gr.LCB; TRIM: SS304 DRG NO: RVL/91FE/223/2 REV:00	----	01 NO.

DOCUMENTS OF REFERENCE : See continuation sheet for additional documents: Yes No

Title	Reference n°	Rev.	Approved by	Date
SOPE OF INSPECTION	LOW TEMPERATURE TESTING WITNESS	00	REYNOLD	15/05/2014
GA DRAWING	RVL/91FE/223/2	00	REYNOLD	----
LTT PROCEDURE	RVL/CRYO/01	01	REYNOLD	12/05/2014

<p>INSPECTIONS:</p> <p>Inspection place & Date or Period: M/s. Reynold Valves Ltd., Boiser, Tarapur Dtd.20/05/2014</p> <p>Stage of inspection :</p> <p><input type="checkbox"/> Before manufacturing <input type="checkbox"/> During manufacturing <input checked="" type="checkbox"/> Final <input type="checkbox"/> Packing</p> <p>Kind of inspection:</p> <p><input type="checkbox"/> Pre-inspection meeting <input type="checkbox"/> Document and QC record review <input checked="" type="checkbox"/> Visual examination, checks <input checked="" type="checkbox"/> Witnessing tests <input type="checkbox"/> Manufacturing progress status <input type="checkbox"/> Vendor assessment <input type="checkbox"/> Final inspection <input type="checkbox"/> Packing (for details see continuation sheet)</p> <p>Stamping :</p> <p><input checked="" type="checkbox"/> NO <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>Results of inspection: <input checked="" type="checkbox"/> Satisfactory <input type="checkbox"/> Unsatisfactory</p> <p>Non Conformities Reports (NCR):</p> <p>o NCR's issued during reported period: None</p> <p>o List of outstanding NCR's: Nil</p> <p>Main Conclusions & Remarks: (for details see continuation sheet)</p> <p>1. Inspection carried out as per approved LTT proedure & drawing.</p> <p>2. The Inspection or testing witnessed was found satisfactory; found acceptable as per relevent satndard.</p> <p>Next visit scheduled: Not Required</p> <p>Po Status : Completed</p> <div style="text-align: right;">  <p><i>Receipt</i> 23/05/2014</p> </div>
---	--

INSPECTION REPORT Nr: RVL/MUM/LTT/IR/01

BV Job nr: IND.M.4.14.0490

ORIGINAL

Details of inspection activities carried out with respect to scope of work:

1. Visual inspection was carried out on which is to be LTT tested, No any significant discontinuity was observed.
2. Witnessed Shell, Seat hydro test & Seat Air test was witnessed for valve on ambient or room temperature as per BS 6755 Part-1; Found acceptable.
3. Same time Torque is also checked found 170 NM.
4. Reviewed calibration certificates of all instruments are used for Low temperature testing like, Pressure Gauge, Helium Gas cylinder purity certificate, RTD, digital temperature indicator with sensors, gas flow meter etc. Found within valid period.
5. Valve is kept in chamber made by manufacturer; Thermocouples (RTD) are fixed on valves as per diagram. All connections are checked for Pressure Inlet & Outlet to flow meter, RTD to digital temperature indicator.
6. Valve chamber is filled properly by small pieces of Dry ice. Pressure given to valves 80 PSIG by Helium gas. Valve is cooled down upto -46 Deg. Celcius (Valve is in Closed Position) Operate valves 20 cycles (Close to Open & Open to Close).
7. Mechanical torque is checked measured 200 NM. Stabilised pressure on -50 Deg. Celcius for hold time for one hour. Continuously observation was done, No any recordable leakage was observed.
8. No any leakage or pressure drop was observed through joints and in flow metre also.
9. Reviewed Observation report in Reynold valves format. Found acceptable. As per relevant standard.

Conclusion: Low temperature Testing carried out was found acceptable, as per standard.

ANNEXURES No**Inspected by:**

Name: Gajanan M.Sagle

Date of issue: 20/05/2014

Inspection centre: BV-Mumbai

**Checked by:**

Name: Gajanan M.Sagle

Signature Diffusion: REYNOLD VALVES BVIL-MUMBAI



Interim
 Final

INSPECTION REPORT Nr: RVL/MUM/LTT/IR/01

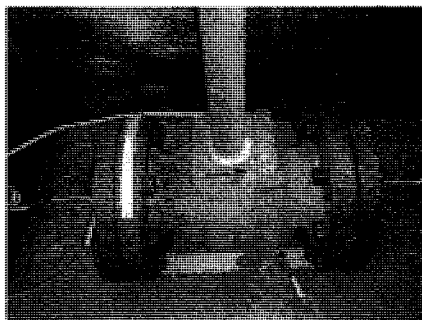
BV Job nr: IND.M.4.14.0490

ORIGINAL

Photos:



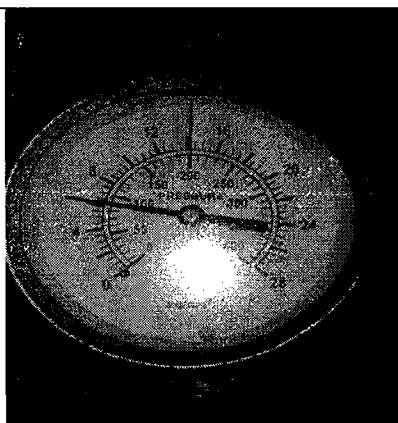
Torque test



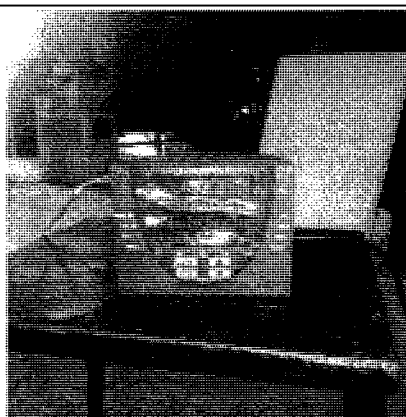
RTD & Thermocouple location



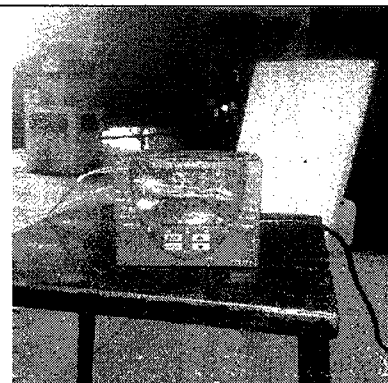
Gas flow meter



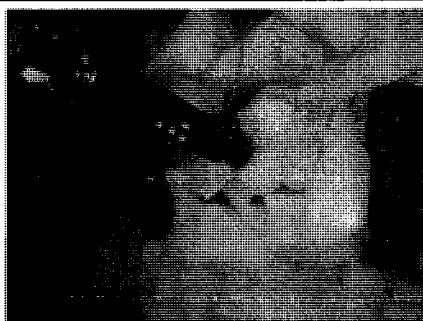
Helium pressure at 80 PSIG



Thermometer reading in celcius



Thermometer reading in celcius



Valve covered with Dry ice



Qaceju
28/05/2014