

MATERIAL TEST CERTIFICATE

EN10204:2004 3.1

YONGJIA TONG BALL Valve Co., Ltd.

Address: Dongou Industrial Zone, Oubel Street, Yongjia County, Zhejiang Province (1st Floor Plant of Wenzhou Huajiang Industrial Co., Ltd)

Purchaser: JC VALVULAS INDIA PVT LTD	Material Specification: ASTM A182 F6a Class2-Edition 2024A	NO: R25010017
Order No.: JCCMP-2425001581	Date: 2025-01-09	

Chemical Composition (%)						
	C	Mn	Si	S	P	Cr
Specification	≤0.15	≤1.00	≤1.00	≤0.03	≤0.040	11.5-13.5
Actual	0.125	0.35	0.334	0.0005	0.025	12.28
						0.12
						4.21

Mechanical Property Test

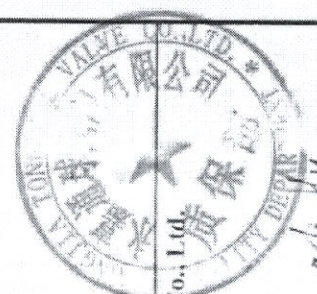
Heat No.	Tensile Test			Impact Test		
	Test Temp.	Tensile σb (Mpa)	Elongation (%)	Temp. (°C)	Specimen Size	Hardness
LK1007	STD	Min585	Min18			(HB)(max) 167-200
	Actual	638	39			(J)(minimum) 181,183

Other Test

PT	UT	Visual Inspection	Heat Treatment	Remarks
Accepted	Accepted	ASME BPVC SECTION VIII, DIVISION I UF-45 & UF-46	Annaling 760°C 2h Furnace cooling	
Accepted	Accepted	Accepted	Normalizing 1020°C 2h Air Cold	
			Tempering 690°C 4h Air Cold	
			Quenching Cool Below Temp. (min) °F(C)400(205)	

PO,SR.No.	Drawing No.	Item Description	Qty	Heat No.	Quality auditor:
10	X2B-040-6060N REV.1	Ball Machining NPS 1-1/2(DN40) (#600) A 182 Gr.F6A CLASS-2+25 MICRON ENP COATING MDS No.JC-MDS-357,104 Rev.8,2	40	LK1007	YONGJIA TONG BALL Valve Co., Ltd.

specification ASTM A182 F6a Class2-Edition 2024A & JC-MDS-357 REV. 8 & JC-MDS-104 REV. 2 the material conforms to MR0175 for hardness.



Q.A. Head: Zhong hui


JC Valvulas India Pvt. Ltd.
Chennai, Tamil Nadu, India
Verified & Accepted
Q.A. R. Dinkal

Heat treatment record report 热处理记录报告

委托单位 (Entrust Company): 通球阀门有限公司

NO: TQ2412131

material trademark 材料牌号		A182 F6A CL2 ✓		Process name 工艺名称		调质	
Equipment number 设备编号	BD1701-3	Thermocouple number 热电偶编号	305064	Recorder number 记录仪编号	18090356	Order number 炉序号	BD072412121
Procedure content 工序内容	Holding temperature 保温温度	Soaking time 保温时间 h		Cooling medium 冷却介质	Pre-quenching temperature (介质) 淬前温度 °C		
退火	760	2		炉冷			
正火	1020	2		空冷			
回火	690	4		空冷			
product name 产品名称	Production number 生产编号	Description 型号规格	Quantity 数量	Heat NO. 炉号	Mechanical property 机械性能		
固定球	IYD2412008	65.4*38*51.2	40 ✓	LK1007 ✓	σ _s MPa	σ _b MPa	δ %
							ψ %
					AK/J/Cm' 硬度值		
					Test item 实验项目		



Yongjia Boda machinery heat treatment co., Ltd
永嘉县博大机械热处理有限公司

填表人: 叶建玲 审核人: 方建东

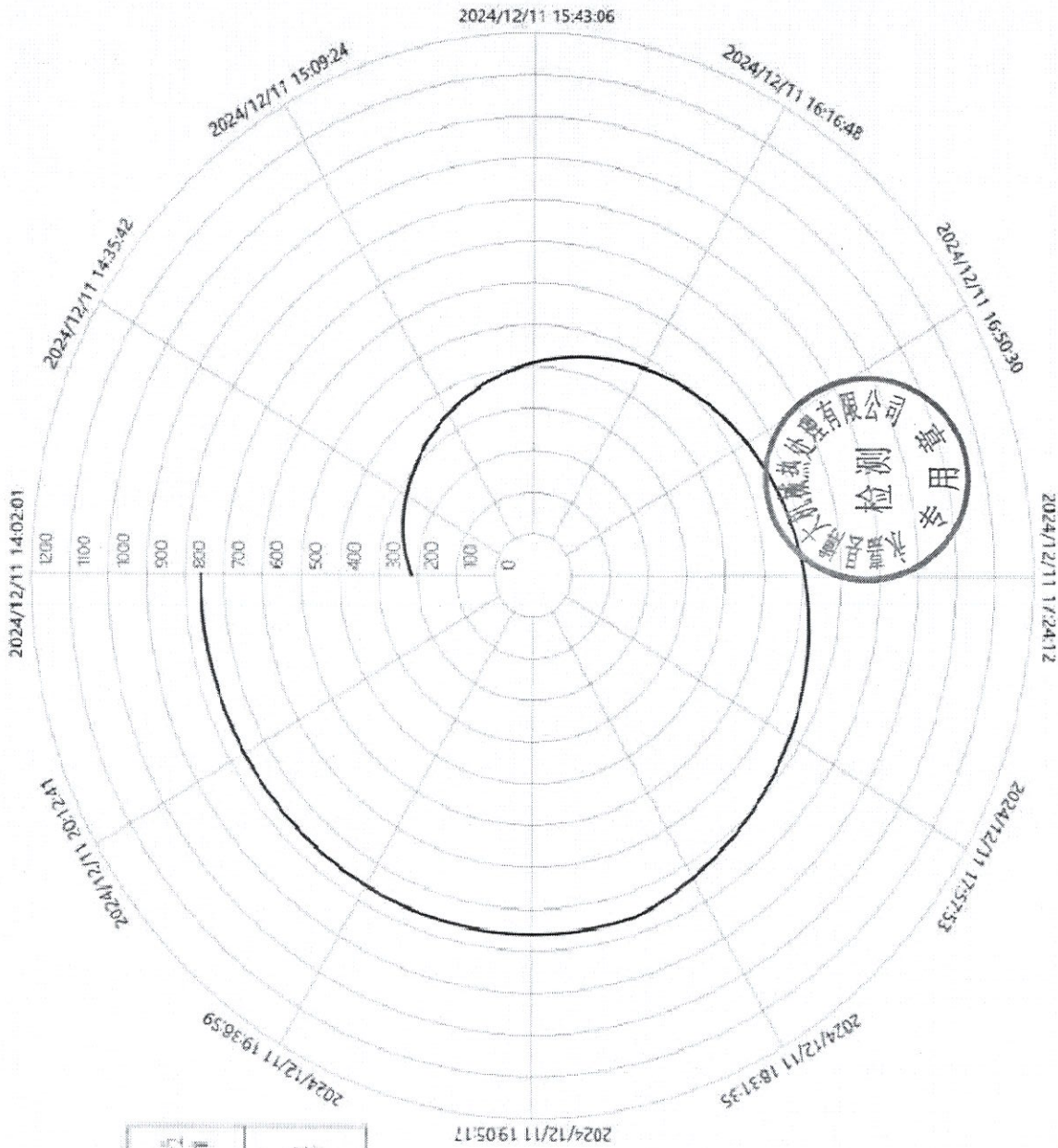
JC Valvulas日期: 2024-12-13
Chennai, Tamil Nadu, India
Verified & Accepted
Q.A. *R. Sankar*

Q.A. Heat: zhongqi hu

开始时间: 2024-12-11 14:02:01
结束时间: 2024-12-11 20:46:23

设备名称 Product Name	物料名称 Material Name	物料描述 Description	产品代码 Product Code	物料代码 Material Code	物料数量 Quantity	单位 Unit
10001000	10001000	10001000	10001000	10001000	10001000	10001000

D.S. Head: zhongli su



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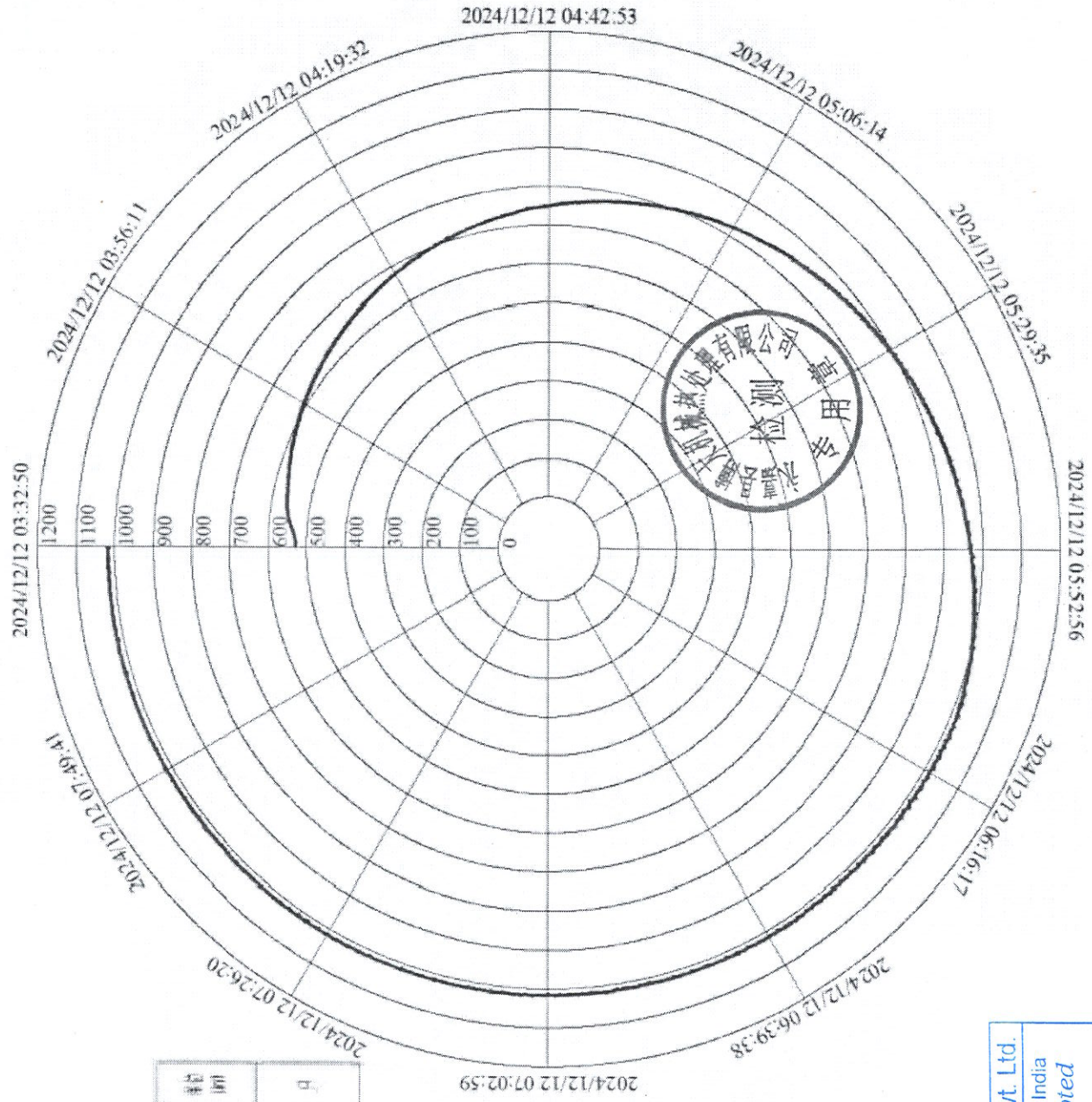
JC Valvulas India Pvt. Ltd.
Chennai, Tamil Nadu, India
Verified & Accepted
Q.A. *R. Dik*

圆图曲线打印

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 打印通道: 通道03K 1
 记录间隔: 2 秒
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 结束时间: 2024/12/12 08:13:04
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生产编号 Production Number	物料号 Material Number	描述 Description	产量 Production Quantity	开始 Start Time	结束 End Time	数量 Quantity	单位 Unit
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Q.D. Head = Zhongli Hu



[绝对时间]

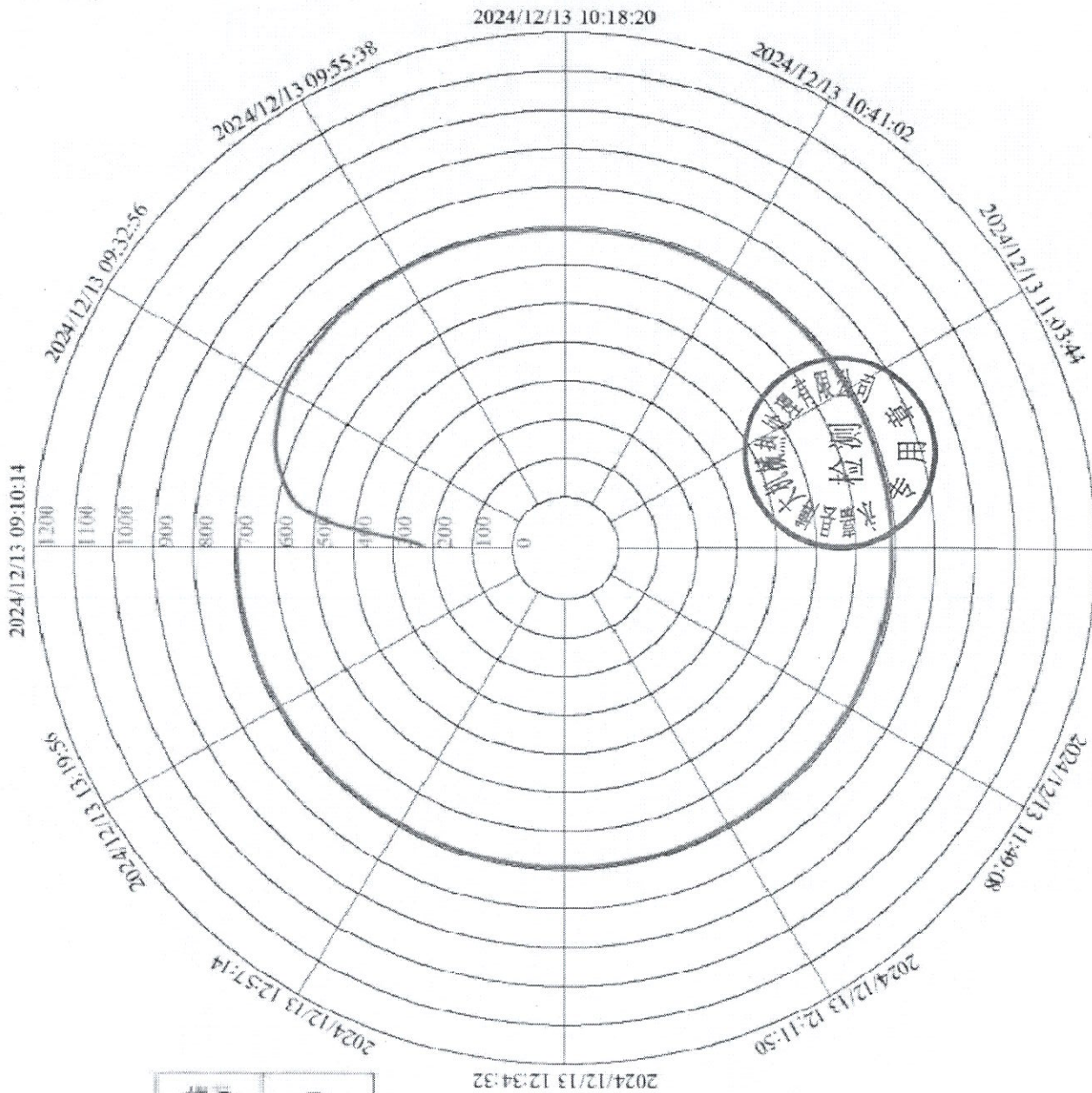
JC Valvulas India Pvt. Ltd.
 Chennai, Tamil Nadu, India
 Verified & Accepted
 O.A. *R. Shetty*

圆图曲线打印

设备名称: 总貌
 打印通道: 通道05 [x] []
 记录间隔: 2 秒
 开始时间: 2024/12/13 09:10:14
 结束时间: 2024/12/13 13:42:40
 数据数量: 8174

生产编号 Production Number	打印通道 Print Channel	生产日期 Production Date	生产时间 Production Time	设备名称 Equipment Name	数量 Quantity	单位 Unit
				总貌 Total	40	只 Pcs

Q.S. Head: Zhongli Hu



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 2024/12/13 11:26:26

JC Valvulas India Pvt. Ltd.
 Chennai, Tamil Nadu, India
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 Q.A.
 P. S. K. J.