

MATERIAL TEST CERTIFICATE

EN10204:2004 3.1

YONGJIA TONG BALL Valve Co., Ltd.

Address: Donggou Industrial Zone, Qubei Street, Yongjia County, Zhejiang Province(1st Floor Plant of Wenzhou Huijiang Industrial Co., Ltd)

Purchaser: JC VALVULAS INDIA PVT LTD		Material Specification: ASTM A351 CF8M/CF3M-Edition 2024		Date: 2025-01-05		NO: R24120180					
Order No.: JCCMP-2425001581		Chemical Composition (%)									
Heat No.	C	Min	Si	S	P	Cr	Mn	Ni			
	Specification	≤0.03	≤1.50	≤0.04	≤0.04	17-21	2-3	9-13			
	Actual	0.0236	0.885	0.427	0.0031	0.0357	18.32	2.06	9.08		
241213B7		Mechanical Property Test									
H.T Batch No.	Test Temp.	Tensile	Yield	Elongation	Reduction of Area	Temp.	Impact Test		Hardness		
							Specimen	Akv			
BD032412169	Ambient Temp.	nb	σ _{0.2} (Mpa)	%	%	(°C)	Size	(J)(minimum)			(HRCmax)
								STD	Min:205	Min:30	
	Actual	586	351	62		-29	10*10*55	201	219	211	151,155
Heat No.	PT	UT	Other Test		VISUAL INSPECTION		Heat Treatment		Remarks		
			MSS SP-55	Type II to XII; Category A and B only.	solution treat 1040°C, 2h, Quenching below 260 °C, water cold						
241213B7	Accepted	Accepted	Accepted	Accepted	Accepted						
PO.SR.No.	Drawing No.	Item Description		Qty	Heat No.	YONGJIA TONG BALL Valve Co., Ltd.					
5	XOB-250-6803 REV. 1	BALL DN250 6803(DNV CAST) A351 GR.CF8M/CF3M (DUAL) SP-008 MDS No.JC-MDS-307 Rev.2		21	241213B7	Q.A. Head: Zhongli Hu					
JC Valvulas India Pvt. Ltd. Chennai, Tamil Nadu, India Verified & Accepted		R. S. K. P.									

We hereby certify that the parts listed above are manufactured and inspected, tested in accordance with the requirements of material specification ASTM A351 CF8M/CF3M-Edition 2024 & JC-MDS-307 REV.2 & SP-008 the material conforms to MR0175 for hardness.



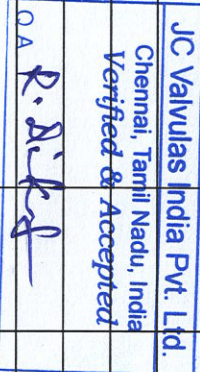

Head: Zhongli Hu

Heat treatment record report

热处理记录报告

委托单位 (Entrust Company): 永嘉通球阀门有限公司

NO: TQ02412162

material trademark 材料牌号	A351 CF8M/CF3M			Process name 工艺名称	固溶				
Equipment number 设备编号	BD1701-7	Thermocouple number 热电偶编号	70387	Recorder number 记录仪编号	18090356	Order number 炉序号	BD032412169		
Procedure content 工序内容	Holding temperature 保温温度	Soaking time 保温时间 h	Quantity 数量	Cooling medium 冷却介质	Pre-quenching temperature (介质) 淬前温度 °C	Quenching temperature (介质) 淬后温度 °C			
固溶	1040	2	21	水冷	30	39			
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				
浮动球	1YD2412003	298*200*218	21	241213B7	Test item 实验项目	EMR	σ_b MPa	δ%	ψ%
试棒	1YD2412003-1	30*360	1	241213B7					
				<p>Yongjia Boda machinery heat treatment co., Ltd</p> <p>永嘉县博大机械热处理有限公司</p> <p><i>A.A. Head: Zhonghua Hu</i></p>					
									
									
				<p>填表人: 叶建玲 日期: 2024-12-16 审核人: 方建东</p>					

圆图曲线打印

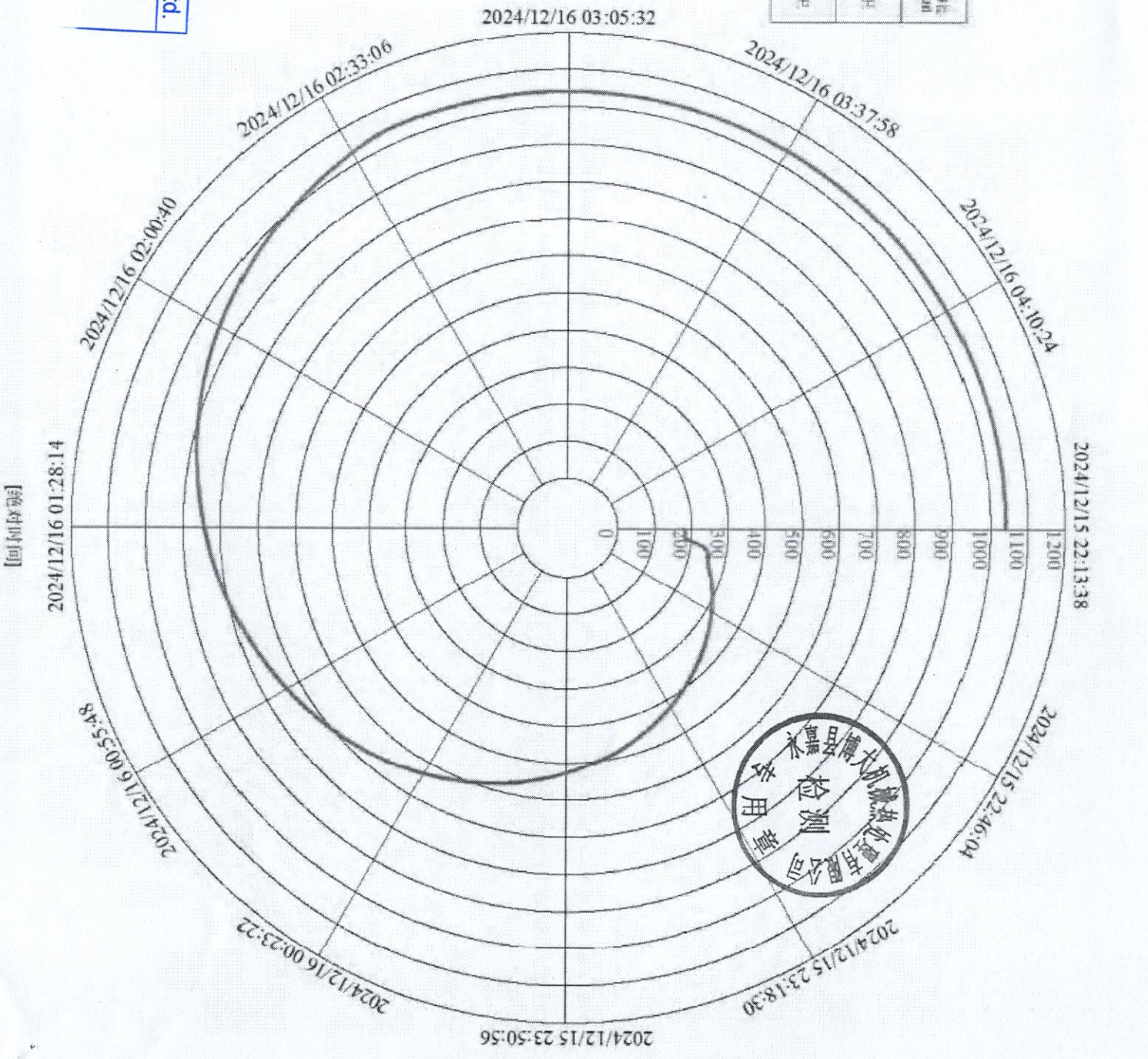
设备名称: 总貌
 打印通道: 通道02[1] ■
 记录间隔: 2秒
 开始时间: 2024/12/15 22:13:38
 结束时间: 2024/12/16 04:42:50
 数据数量: 11677

生产单元 Production Name	机台号 Machine No.	卷号 Description	开始时间 Start Time	结束时间 End Time	生产数量 Production Quantity	单位 Unit
Y10412001	AG1 CRACK3M	2020123	241215	241216	21	片
Y10412001	AG1 CRACK3M	3020123	241216	00241216	1	片

O.A. Head: Zhangyixu

JC Valvias India Pvt. Ltd.
 Chennai, Tamil Nadu, India
 Verified & Accepted

R. Akshay





Test Report

TC1472825000019868F

Customer: M/s. JC Valvulas India Private Limited No: 143, 1st Main Road, Industrial Estate, Perungudi, City:Chennai ,600096	Report No.:	TR/24-25/7354-1
	Report Date:	17-03-2025
	Customer Ref. No.:	DC2425002012
	Ref. Date	07-03-2025
	Sample Received Date:	10-03-2025
	Date Of Completion:	17-03-2025

Samples drawn by Customer

Sample Description: Test Bar, Heat No: 241213B7, Material: CF8M/CF3M, SP-Code: SP-008, PO No: SC-2425002563

Discipline : Chemical, **Group :** CORROSION TESTING

INTERGRANULAR CORROSION TEST (PRACTICE-B)

Test Method : ASTM A262:2015 (2021)

Verified By: N THINESH KANNAN

Tested on : 12-03-2025 to 17-03-2025

Test Parameters	Result	Requirement
Sensitization Temp	Specimen was sensitized at 675 °C for 1 hour	
Test Solution	Ferric Sulfate –Sulfuric Acid Solution	
Size (mm)	L:27.02 x W:20.17 x Thk:8.28	
Total Surface Area of the specimen (cm ²)	18.7145	
Initial Weight of the specimen (g)	34.9734	
Start of Test	12.03.2025 (05.00 pm)	
End of Test	17.03.2025 (05.00 pm)	
Duration of Test	120 Hours	
Final weight of the specimen (g)	34.7750	
Weight loss (g)	0.1984	
Corrosion Rate (mpy)	38.0763	60.0 max.

For MICROLAB

K. Mathan Kumar

K. Mathan Kumar
Head, Corrosion & Polymer Department

Authorized Signatory

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

End of Test Report

NOTE : This report relates only to the particular sample submitted for test * Any correction is not attested shall invalidate this certificate * Sample will be destroyed after 15 days from the date of testing unless instructed otherwise * Any complaints about this report should be communicated in writing within 7 days of this report * This report not to be produced wholly or in parts and cannot be used as an evidence in a court of law and shall not be used in advertising Media without prior permission in writing * Sample description is not verified in all cases and is given as described by the customers * Sample are not drawn by us unless otherwise stated * Laboratory reports the statements of Conformity to material specification as per Decision Rule 1, Non Conformity as per Decision Rule 4 & For Rule 2 & 3 Customer provides feedback.

