

MATERIAL TEST CERTIFICATE

EN10204:2004 3.1

YONGJIA TONG BALL Valve Co., Ltd.

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

Purchaser: JC VALVULAS INDIA PVT LTD	Material Specification: ASTM A182 Gr F316-Edition 2024A	NO: R24120170
Order No.: JCCMP-2425001581	Date: 2025-01-06	

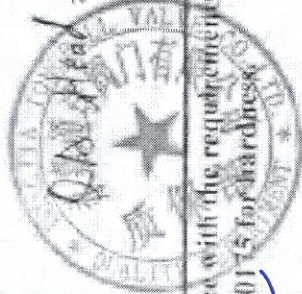
Heat No.	Chemical Composition (%)										Forging Ratio
	C	Mn	Si	S	P	Cr	Mo	Ni	N		
Specification	≤0.08	≤2.00	≤1.00	≤0.030	≤0.045	16.0-18.0	2.00-3.00	10.0-14.0	≤0.10		≥3:1
Actual	0.015	0.88	0.51	0.001	0.035	16.30	2.01	10.01	0.06		4.23:1

H.T Batch No.	Tensile Test					Impact Test			
	Test Temp.	Tensile (Mpa)	Yield (Mpa)	Elongation (%)	Reduction of Area (%)	Temp. (°C)	Specimen	Akv	Hardness (0199mas)
SD032412105	STD	Min 515	Min 205	Min 30	Min 50		Size	(1) (2) (3)	≤235
	Actual	563	259	57	79		AVG		150,154

Heat No.	Other Test		VISUAL INSPECTION		Heat Treatment		Remarks
	PT	UT	ASME BPVC SECTION VIII, DIVISION I UF-45 & UF-46	Accepted	solution treat 1040°C 2h, Quenching below 260 °C water cold		
LK6560	Accepted	Accepted	Accepted	Accepted			

P.O.SR.No.	Drawing No.	Item Description	Qty	Heat No.	YONGJIA TONG BALL Valve Co., Ltd. Q.A. Head: Zhongli Hu
12	X2B-080-2515N-06 REV. 3	Ball Machining DN80#150#600 ASTM A 182 Gr.F316 SP-008 MDS No.JC-MDS-341 Rev.7	3	LK6560	

Q.A. Head: Zhongli Hu



We hereby certify that the parts listed above are manufactured and inspected, tested in accordance with the requirements of material specification F316-Edition 2024A&JC-MDS-341 REV.7&SP-008 the material conforms to MR0175 for hardness

JC Valvulas India RYB1 for Chennai, Tamil Nadu, India Verified & Accepted

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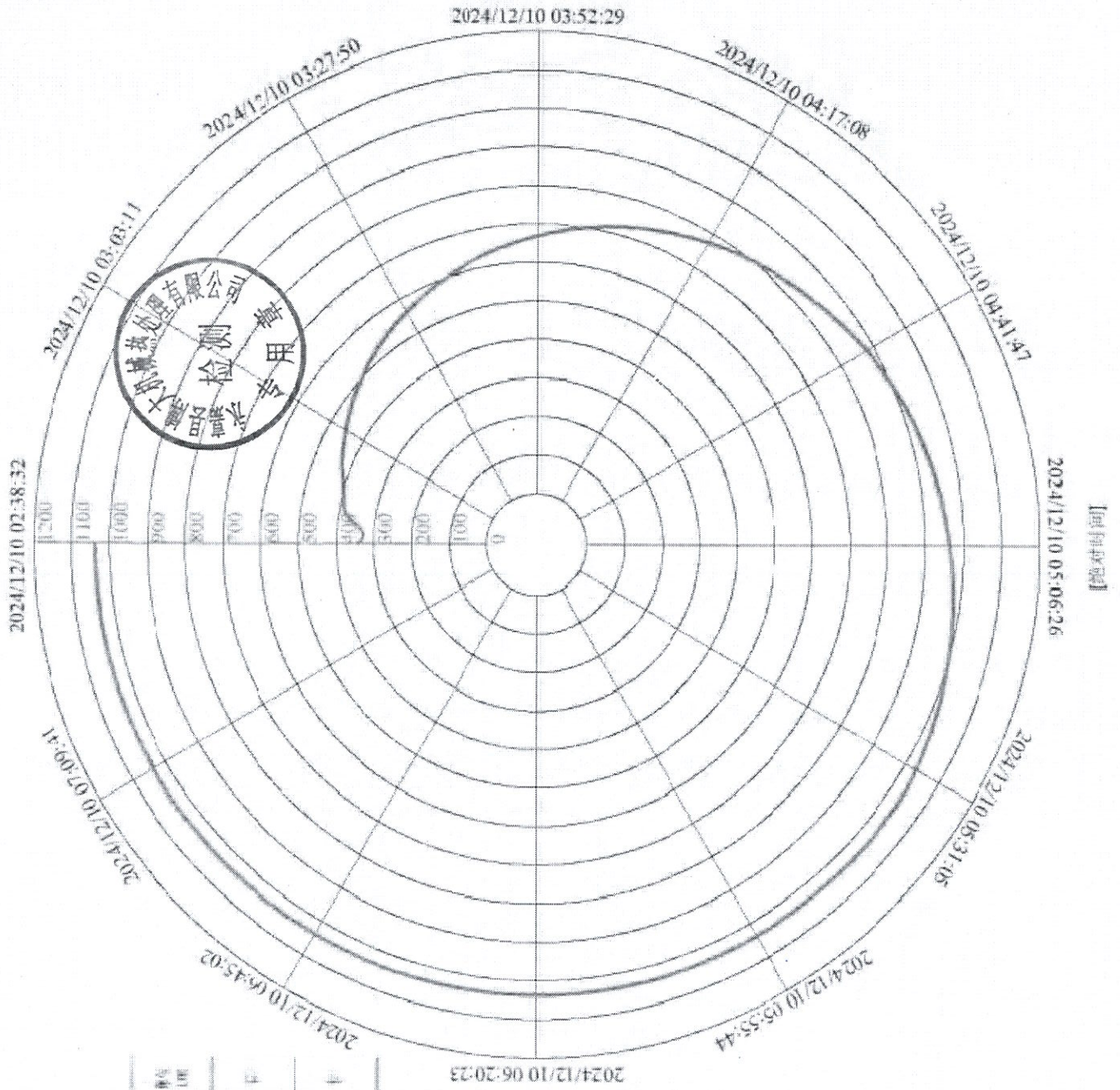
圆图曲线打印

设备名称: 总装
 打印通道: 通道 04 [c] [■]
 记录间隔: 2 秒
 开始时间: 2024/12/10 02:38:32
 结束时间: 2024/12/10 07:34:20
 数据数量: 8875

名称 Name	ID ID	描述 Description	单位 Unit	数量 Quantity	备注 Remarks
...
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G.S. Head - Zhongbi Hu

JC Valvulas India Pvt. Ltd.
 Chennai, Tamil Nadu, India
 Verified & Accepted
C. Dattay





Test Report

TC1472825000019863F

Customer: M/s. JC Valvulas India Private Limited No: 143, 1st Main Road, Industrial Estate, Perungudi ,City:Chennai ,600096	Report No.:	TR/24-25/7348-1
	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: LK6560, Material: F316, SP-Code: SP-008, PO No: SC-2425002557

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
Test Solution	Ferric Sulfate –Sulfuric Acid Solution	
Size (mm)	L:25.36 x W:20.17 x Thk:8.28	
Total Surface Area of the specimen (cm ²)	17.7700	
Initial Weight of the specimen (g)	33.1816	
Start of Test	12.03.2025 (04.00 pm)	
End of Test	17.03.2025 (04.00 pm)	
Duration of Test	120 Hours	
Final weight of the specimen (g)	32.9949	
Weight loss (g)	0.1867	
Corrosion Rate (mpy)	37.7353	60.0 max.

JC Valvulas India Pvt. Ltd.
Chennai, Tamil Nadu, India
Inspected / Verified & Accepted
N. Muthukrishnan
Q.A/Q.C - N. MUTHUKRISHNAN

For MICROLAB

K. Mathan Kumar
K. Mathan Kumar
Head, Corrosion & Polymer Department

Authorized Signatory

----- 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.

