

检测报告

Test Report

报告编号

Report No. ROCKB202005025

产品名称
Product Name

石墨填料 M600
Graphite Packing M600

委托单位
Customer

浙江喜鹊密封件有限公司
Zhejiang Magpie Sealing Element Co., Ltd.
浙江省温州市永嘉县瓯北街道浦一村谢宅巷 9 号
No.9 Xiezhai Alley, Puyi Village, Oubei Street,
Yongjia County, Wenzhou City, Zhejiang Province

委托单位地址
Customer's Address

试验起始日期
Date Started

2020 年 5 月 27 日
May 27, 2020

试验结束日期
Date Finished

2020 年 5 月 29 日
May 29 2020

浙江岩石机械检测有限公司
Zhejiang Rock Mechanical Inspection and Testing Co., Ltd.



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通讯地址：浙江省温州市永嘉县瓯北街道和一工业区

Address: Heyi Industrial Zone, Oubei, Yongjia, Wenzhou, Zhejiang.

邮政编码 Post code: 325000

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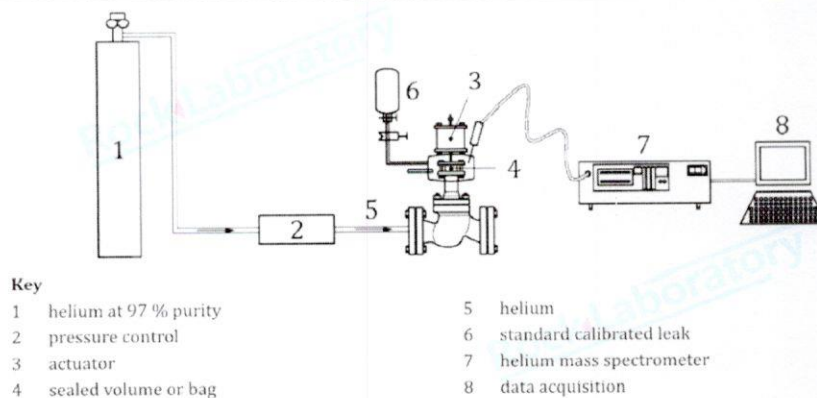
邮 箱 E-mail: rock@rock-lab.cn

网 址 Web: www.rock-lab.cn

填料低泄漏试验信息 Fugitive Emissions Test Information

填料厂家 Manufacturer	浙江喜鹊密封件有限公司 Zhejiang Magpie Sealing Element Co., Ltd.			
填料描述 Description	石墨填料/2 个带金属丝加强编织石墨圈, 3 个模压石墨环 Graphite packing/ 2 nos. of metal-wire-reinforced braided graphite rings, 3 nos. of die-formed graphite rings			
填料材料 Material	石墨 Graphite	填料型号 Model No.	M600	
阀杆运动方式 Stem Motion	升降 Rising	测试时阀杆朝向 Stem Orientation During Test	水平 Horizontal	
抽样方 Selected by	厂家 Manufacturer	送样日期 Collected Date	2020.05.25	
样品编号 Sample No.	ROCKP202005025	样品状态 Sample status	完好 Intact	
检测项目 Test Item	密封性能试验 Sealing Performance Test	填料圈数 Number of Rings	5	
填料截面尺寸 (mm×mm) Cross Section Dimensions	6.35×6.35	阀杆直径 (mm) Stem Diameter	25.4	
填料压套内径 (mm) Packing Gland ID	25.5	填料压套外径 (mm) Packing Gland OD	38	
安装后填料压缩量 (%) Packing Compression	11%	推荐填料拧紧扭矩 (N·m) Recommended Gland Tightening Torque	螺母 1 Nut 1	59
			螺母 2 Nut 2	59
试验依据 Test Basis	DIN EN ISO 15848-1: 2017-07 及客户要求 DIN EN ISO 15848-1: 2017-07 and client's requirements			
试验介质 Test Medium	99.999% 氦气 99.999% Helium	允许阀杆泄漏量 Allowable Stem Leakage	≤4.52E-05 mbar·l·s ⁻¹ (Refer to BH)	
机械循环总数 No. of Mechanical Cycles	205 (Refer to CO1)	热循环总数 No. of Thermal Cycles	2 (Refer to CO1)	
试验压力 (MPa) Test Pressure	5.11MPa@RT 3.47MPa@+400℃	试验过程中填料调整次数 Packing Adjustment Nos. During Test	0	
检漏仪品牌/型号/序列号 Leakage Detector Brand/ Model/ Serial Number	Leybold / PHOENIX L300i / 90001197646			
实验室名称及地址 Test Facility	中国浙江省永嘉县瓯北镇和一工业区岩石阀门检测实验室 ROCK Valve Testing Lab, Heyi Industrial Zone, Oubei, Yongjia, Zhejiang,PRC			

试验装置图 Test Rig Diagram:



注 Note:

上图所示试验阀门仅为示意，并非代表此次试验结构。Valve image in above picture are for reference, does not represent the structure of test rig.

试验记录 Testing Data

循环数 Cycle Number	试验温度 Test Temperature			压力 Pressure MPa	阀杆净泄漏量 Net Stem Leakage mbar·l·s ⁻¹	填料扭矩 Gland Nut Torque (Nm)		判定 Evaluation
	TC1-°C	TC2-°C	TC3-°C			螺母 1 Nut 1	螺母 2 Nut 2	
0	RT	RT	RT	5.11	1.32E-06	59	59	合格 Pass
50	RT	RT	RT	5.11	1.18E-06	/	/	合格 Pass
50	400	400	400	3.5	2.41E-06	/	/	合格 Pass
100	400	400	400	3.5	1.75E-06	/	/	合格 Pass
100	RT	RT	RT	5.11	6.51E-06	/	/	合格 Pass
150	RT	RT	RT	5.11	7.97E-06	/	/	合格 Pass
150	400	400	400	3.5	4.05E-06	/	/	合格 Pass
200	400	400	400	3.5	9.83E-06	/	/	合格 Pass
205	RT	RT	RT	5.11	1.20E-05	53	54	合格 Pass
实测最大泄漏量 Maximum Leakage Detected					1.20E-05			
填料泄漏量是否低于允许值? Was Packing Leakage Below Allowable?					是 YES			

注 Note:

RT 温度范围为+5°C至+40°C。RT is in the range of +5°C to +40°C.

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Prepared by:

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Date:

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Reviewed by:

日期:

Date:

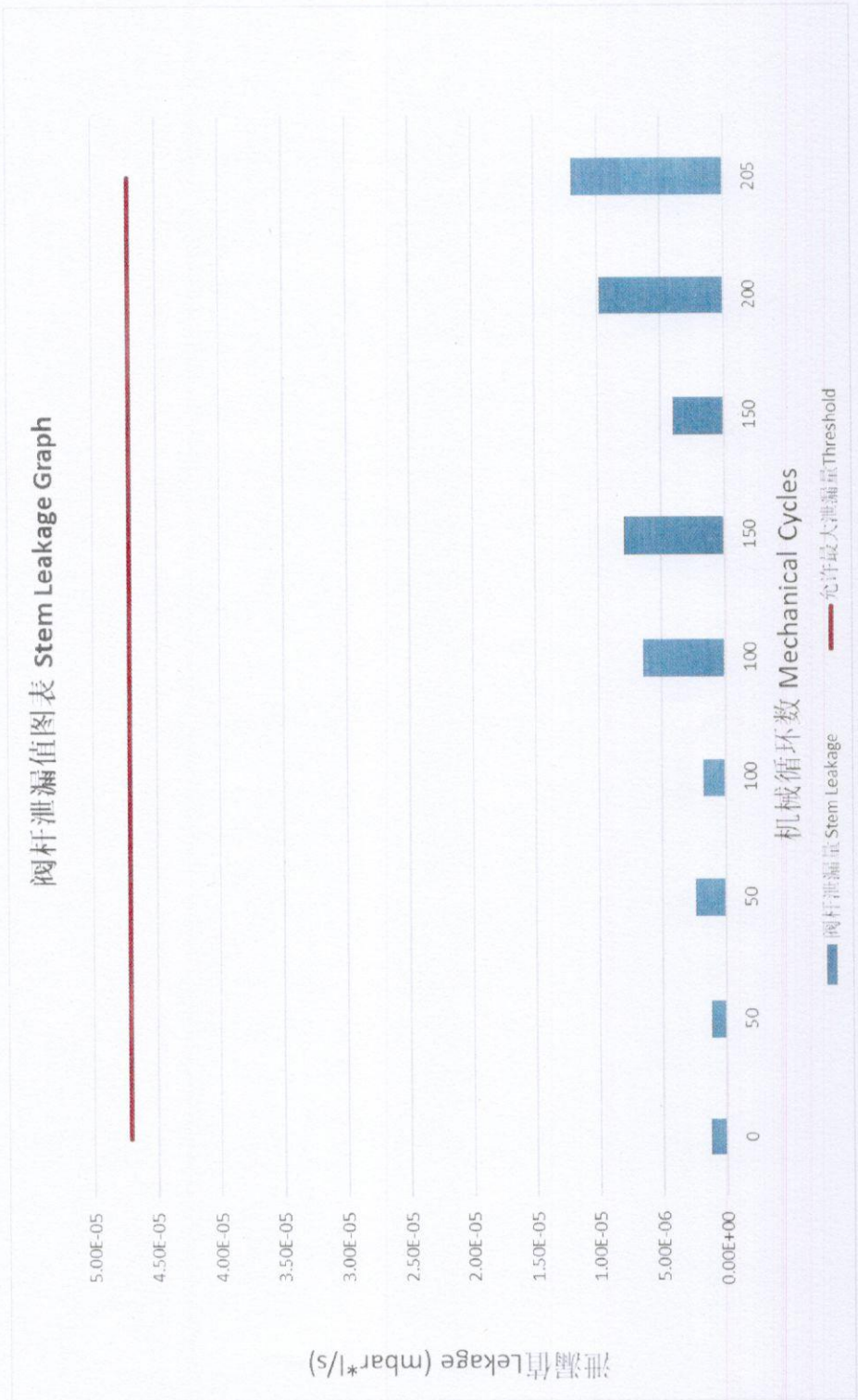
批准: 邵时东

Approved by:

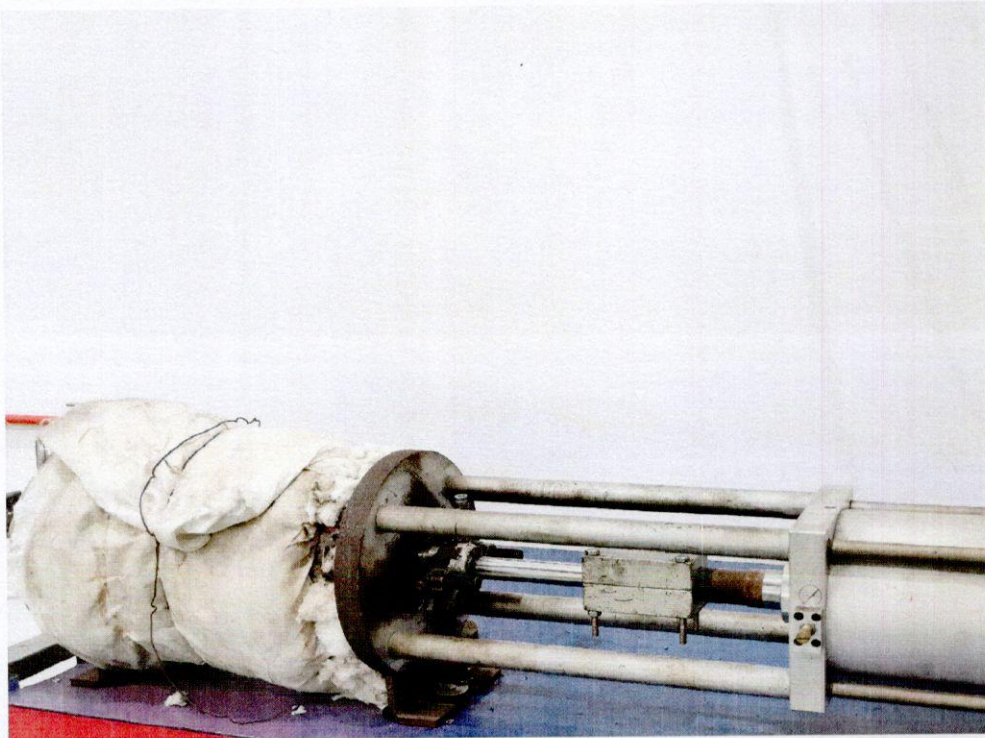
日期:

Date:

阀杆泄漏值图表 Stem Leakage Graph



照片记录 Photographic record



试验装置 Test Rig



压缩高度测量 Packing Compression Measurement



试验前的填料环 Packing rings before test



试验后的填料环 Packing rings after test



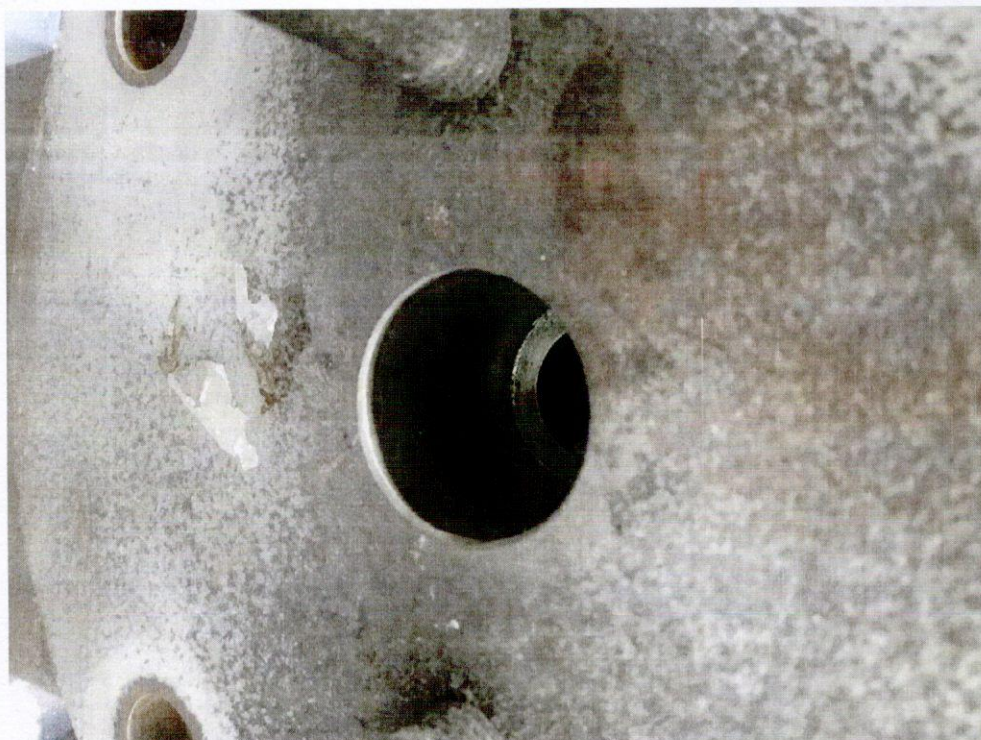
试验后的填料压套 Gland follower after test



填料压盖 Gland flange

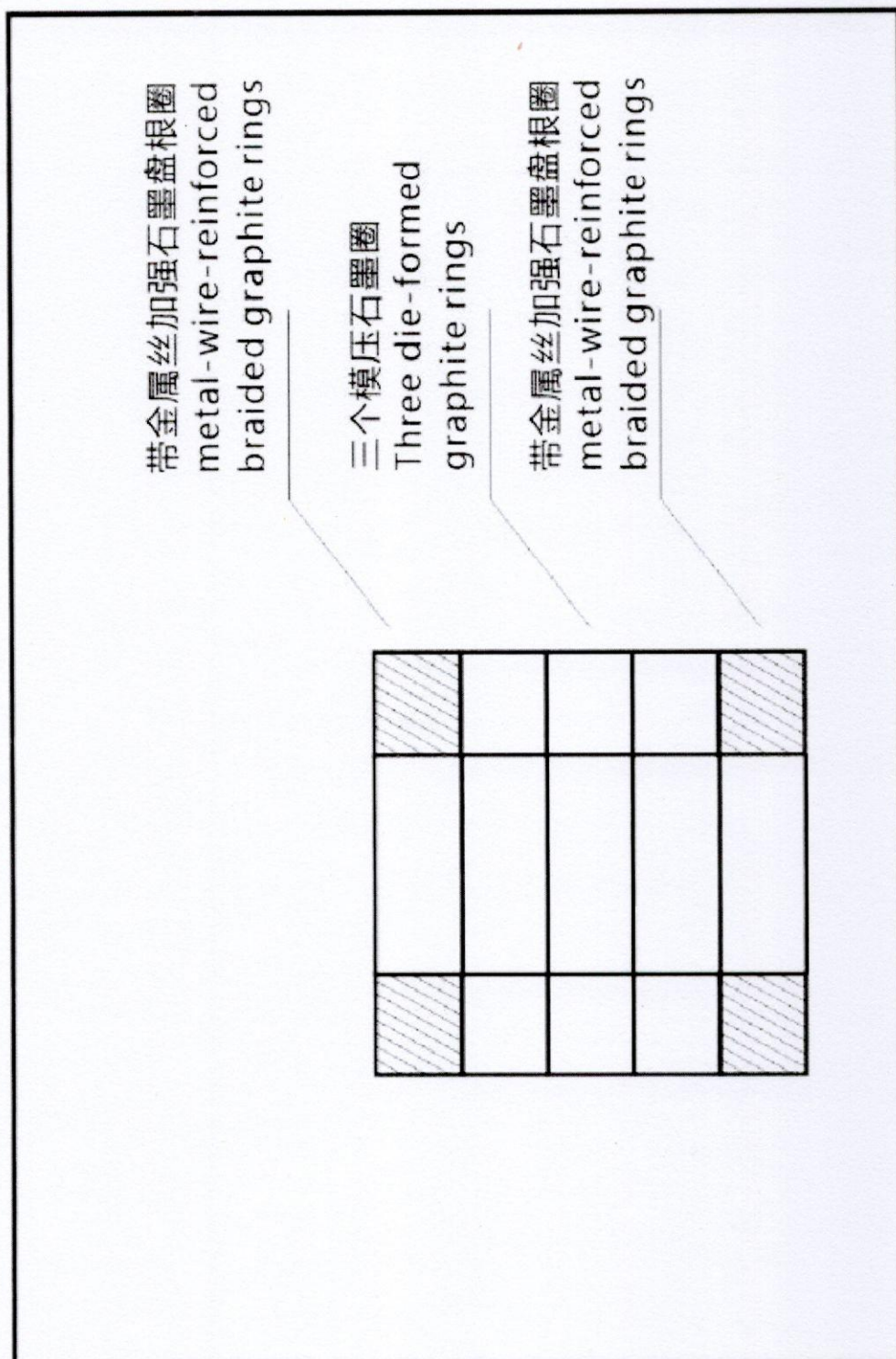


试验后的阀杆 Stem after test



填料函内孔 Stuffing box internal

填料配置图纸 Packing configuration drawing



报告结束

End of report