	Edmonton: SUNCOR FINAL INSPECTION / LOC			DOC #:	REV: 0
	REVIEWED BY:	WV	APPROVED BY:	KG	Date: January, 2022

## Sunbelt Supply Co. Letter of Compliance

We hereby certify that the products offered on the aforementioned Purchase Order are in compliance with Purchase Order description and Valve specification provided. In addition we hereby certify that:

ALL MATERIALS ARE SUPPLIED IN STRICT ACCORDANCE TO SUNCOR STANDARD 0203 (LATEST REVISION) FOR VALVE MATERIALS

Mill test reports (MTRs) verifying compliance with NACE MR0103 and or MR0175 whichever is applicable for all wetted parts in sour service. Impact test, Seat Leakage test, and Hardness Test may be provided as part of the MTR. Hence the MTR may actually be used as one report that covers the others in lieu.

Positive material identification (PMI) for Alloy valve bodies and Bonnets is required per Suncor Standard 0213, report will accompany shipments where required.

Hydrostatic test report or Letter of Compliance stating that each valve has been inspected and tested per API 598 and comply with all referenced codes, standards, and Suncor standards. The Valve bonnet bolts have been properly torqued to the Manufacturers specification

Sunbelt confirms the design of all pressure components are registered with a Canadian Registration Number (CRN) in accordance with the Applicable Provincial Boiler and Pressure Vessels Regulations (i.e. ABSA - Alberta) in Canada or equivalent  
Sunbelt has provided registrations within this document package.



Edmonton: SUNCOR FINAL INSPECTION / LOC

DOC #:

REV: 0

REVIEWED  
BY:

WV

APPROVED BY:

KG

Date: January, 2022

DESCRIPTION: 4" LVGW 3501

CUSTOMER PURCHASE ORDER/CONTRACT No: 3501092232

SALES ORDER No: 202301-00

QTY.: 1

ITEM No: 10

☐ Mod/Testing Insp. ☒ Final**INSPECTION:** The above-mentioned item(s) has(have) been inspected for the following conditions:

Quantity:	<input checked="" type="checkbox"/>	NCRs Completed & Verified (as appropriate):	<input type="checkbox"/>
Packaging:	<input checked="" type="checkbox"/>	Correctness (Valve Type, Size, Pressure Class, Material, Trim, End Connection):	<input checked="" type="checkbox"/>
Completeness:	<input checked="" type="checkbox"/>	Positive Material Identification:	<input type="checkbox"/>
Customer Hold Points Performed:	<input type="checkbox"/>	Applicable documentation complete:	<input checked="" type="checkbox"/>
Items properly tagged:	<input checked="" type="checkbox"/>	All Manufacturers CRN's included	<input type="checkbox"/>
Coating & Painting:	<input checked="" type="checkbox"/>	MTR's Provided with applicable testing reports	<input checked="" type="checkbox"/>
Fit and Functionality Test:	<input checked="" type="checkbox"/>		

**FINAL INSPECTION****STATUS**

ACC	REJ	HOLD QUARANTINE	NCR/CAR No.	RELEASE FOR SHIPMENT	DATE:
/				/	10/8/25

COMMENTS

**CONTRACTOR'S QUALITY CERTIFICATE**

I certify that the item(s) listed herein have been inspected and tested in accordance with applicable drawings and specifications and all the requirements outlined in the contract or purchase order.

  
QUALITY REPRESENTATIVE

DATE: 10/8/25

**Sunbelt Supply Co.**  
COMPANY/AGENCY/JURISDICTION

**Letter of Compliance as per Syncrude Spec L-37**

SYNCRUDE P.O. NUMBER		S.P.M. CODE	
MANUFACTURER	NEWAY	FIGURE NUMBER	G6BA5-NC-ULE1P
TYPE	GATE VALVE	SIZE	4"
BODY HEAT NUMBER	396DV	BONNET HEAT NUMBER	9DV59
SYNCRUDE SPEC L-37 REVISION NUMBER	17	L-37 INSPECTION CATEGORY	2

SER# 10049245-020-1

NORTECH REPORT NUMBER	M-384518	INDIVIDUAL V NUMBER	V-3
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VISUAL EXAMINATION							
TESTING COMPANY	NORTECH ADVANCED NDT			INSPECTOR	Mike Carreiro		
DATE	7-Oct-25			QUALIFICATION	N/A		
TEST METHOD USED -->	MSS SP-25		MSS SP-55	X	API 600		API 602
TEST RESULTS -->				ACCEPTED	X	REJECTED	
HARDNESS TESTING (ALL RESULTS IN BRINELL)							
BODY				BONNET			
MAGNETIC PARTICLE INSPECTION							
TESTING COMPANY	NORTECH ADVANCED NDT			INSPECTOR	Mike Carreiro		
DATE	7-Oct-25			QUALIFICATION	CGSB#: 11514 / SNT-TC-1A II		
TEST METHOD USED -->	MSS SP-53	X	DRY POWDER		WET FLUORESCENT	X	
TEST RESULTS -->				ACCEPTED	X	REJECTED	

CASTING RADIOGRAPHY					
TESTING COMPANY	N/A		INSPECTOR	N/A	
DATE	N/A		QUALIFICATION	N/A	
TEST METHOD -->	ASME B16.34 APPENDIX I		SPOT		FULL
TEST RESULTS					
CLASS	DEFECT	OBSERVED LEVEL		ACCEPT	REJECT
A	POROSITY / BLOW HOLES	N/A			
B	SAND / SLAG	N/A			
CA	SHRINKAGE TYPE 1	N/A			
CB	SHRINKAGE TYPE 2	N/A			
CC	SHRINKAGE TYPE 3	N/A			
CD	SHRINKAGE TYPE 4	N/A			
D	CRACKS	N/A			
E	HOT TEARS	N/A			
F	UNFUSED INSERTS	N/A			
G	MOLTING	N/A			

HYDROSTATIC PRESSURE TESTING					
TESTING COMPANY				INSPECTOR	
DATE				QUALIFICATION	
TEST METHOD -->	API 598	SHELL	BACKSEAT	HIGH PRESSURE CLOSURE	
TEST RESULTS					
	SHELL	BACKSEAT	CLOSURE	ACCEPT	REJECT
TEST PRESSURE (psi)					
DURATION (seconds)					
LEAKAGE (drops/minute)					

The undersigned hereby certifies that the above test results came from an approved test facility.

NAME (print):  SIGNATURE :

POSITION:  DATE :

## MAGNETIC PARTICLE TESTING REPORT - 384518

### TEST RESULTS & COMMENTS

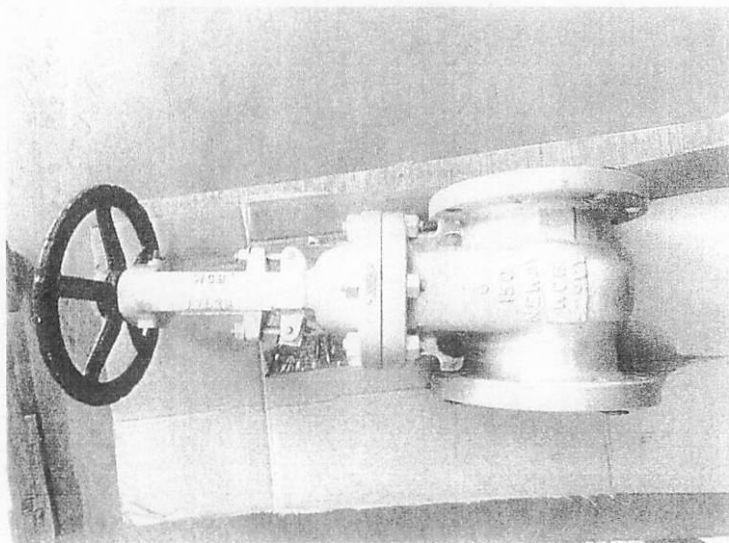
NO INDICATION(S) WERE NOTED @ TIME OF EVALUATION, IN COMPLIANCE WITH SYNCRUDE L37 CATEGORY 2 (2020) / MSS-SP-55 (2012) / MSS-SP-53 (2021).

BLACK LIGHT INTENSITY WAS GREATER THAN  $1000\mu\text{W}/\text{cm}^2$  @ EVALUATION SURFACE  
YOKE VERIFIED BY SUSTAINED LIFT USING ALTERNATING CURRENT ON 10 LB WEIGHT.

Sunbelt PO 94523 qty 2 4in neway valves



Sunbelt PO 94523 qty 1 6in neway valve



### SIGNATURES

\* Client representative's signature indicates acceptance of the reports and results. Nortech Advanced NDT Ltd. is liable for examination costs only.

#### CLIENT REP. /

Technician (PRINT) Mike Carreiro  
Technician (PRINT) Scott Saunders

CGSB: 2  
CGSB:

CGSB REG#: 11514  
CGSB REG#:

SNT-TC-1A: II  
SNT-TC-1A: II

Technician (SIGN)





7108 - 8th Street NW  
Edmonton, AB T6P 1V1  
Ph: 780-449-5013 Fx: 780-449-5036  
www.nortechadvanced.com

## MAGNETIC PARTICLE TESTING REPORT - 384518

CLIENT: **SUNBELT SUPPLY**  
182 Turbo Drive East  
Sherwood Park, Alberta T8H 2J6

DATE: **October 7, 2025**  
INVOICE #:  
JOB #:  
P.O. #: **94523-00**

EQUIPMENT OWNER: **SYNCRUDE CANADA LTD.**  
LOCATION: **Nortech Advanced NDT Ltd.**

WORK ORDERS: **92856**

### TECHNIQUE DETAILS

PROCEDURE #: **MTP-01 REV. 9**  
TEST METHOD: **ASME V, ARTICLE 7 (2023)**  
ACCEPTANCE STANDARD: **ASME B16.34 APP. II (2020) / SYNCRUDE L37 CATEGORY 2 (2020) / MSS-SP-55 (2012) / MSS-SP-53 (2021)**

### EQUIPMENT

Manufacturer: <b>PARKER</b>	Type: <b>B300</b>	Serial #: <b>31331</b>
Last Calibration: <b>Oct-07-2025</b>	Calibration Due: <b>Oct-08-2025</b>	
Manufacturer: <b>WESTERN INSTRUMENTS</b>	Type: <b>10 LBS</b>	Serial #: <b>1032</b>
Last Calibration: <b>Oct-07-2025</b>	Calibration Due: <b>Oct-08-2025</b>	
Manufacturer: <b>REL</b>	Type: <b>NOMAD C4</b>	Serial #: <b>19021607</b>
Last Calibration: <b>Oct-07-2025</b>	Calibration Due: <b>Oct-08-2025</b>	
Manufacturer: <b>SPECTRONICS</b>	Type: <b>AccuMAX XR/XDS-1000</b>	Serial #: <b>2037598 / 2307600</b>
Last Calibration: <b>Jun-10-2025</b>	Calibration Due: <b>Jun-10-2026</b>	

MAGNETIZING METHOD: ☒ AC ☐ DC ☒ Continuous ☐ Residual ☒ Yoke ☐ Coil  
MAGNETIC PARTICLES: ☒ Wet ☒ Fluorescent ☐ Non-Fluorescent Bath Concentration: 0.25ml/100ml  
☐ Dry Color: **FLUORESCENT GREEN**

Manufacturer: **SREM TECHNOLOGIES** Type: **FLUXO 9** Batch/Lot #: **L230215-007**  
LIGHT SOURCE: ☐ Halogen 250W ☐ Incandescent 100W ☐ Maglite 6 Volt Serial:  
SURFACE CONDITION: ☒ Bare Metal ☐ Ground ☒ Machined ☐ Blasted ☒ Painted ☒ Welded ☐ Loose Scale Removed  
MATERIAL TYPE: **WCB** MATERIAL THICKNESS: **0.5" - 3.0"** SURFACE TEMP: **16.3°C**

### ITEMS TESTED

WET FLUORESCENT MAGNETIC PARTICLE EXAMINATION / DIRECT VISUAL EVALUATION WERE PERFORMED ON ALL ACCESSIBLE SURFACES OF THE FOLLOWING:  
(ASSEMBLED ITEMS)

**QTY. (ONE) 6" NEWAY 150 RF GT WCB T5 BB**  
**G1RA5-ULE1P**

ITEM	BODY HEAT#	BONNET HT#	Accept	Reject
10048916-030-1	529VY	1VK28	✓	

**QTY. (TWO) 4" NEWAY 600 GT BW S/XS WCB T5 ISS CLASS 600 BUTT WELD EXTRA STRONG**  
**G6BA5-NC-ULE1P**

ITEM	BODY HEAT#	BONNET HT#	Accept	Reject
10049245-010-1	396DV	9DV59	✓	
10049245-020-1	396DV	9DV59	✓	

*Continued on next page . . .*

### SIGNATURES

\* Client representative's signature indicates acceptance of the reports and results. Nortech Advanced NDT Ltd. is liable for examination costs only.

#### CLIENT REP.

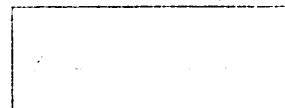
Technician (PRINT) Mike Carneiro  
Technician (PRINT) Scott Saunders


CGSB:  
CGSB:

CGSB REG#:  
CGSB REG#:


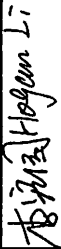

SNT-TC-1A:  
SNT-TC-1A:

Technician (SIGN)



		Painting Report 油漆报告				Report No. 报告号		PR1100492450001A	
Customer/客户名称		SUNBELT SUPPLY CO./MAJOR INC.		Project Name/项目名称		SYNCRUDE 2025			
Customer's P.O No./客户订单号		88340-00		Project Number/项目编号		980002249			
Painting System/油漆系统		NW A2 V2							
Surface Preparation 表面处理									
Date 日期	2025-08-13		Oil And Grease Removed 除去油/脂		Yes	Soluble Salts Removed 除去溶盐		Yes	
Air Temperature deg.C 空气温度	32.00		Dust Removed 除去灰尘		Level 2	Sharp Edges Rounded 磨圆边角边缘		Yes	
Temperature of Steel deg.C 钢材表面温度	31.70		Abrasive blasting 打磨清理		ST 2	Roughness Micron 粗糙度 微米		/	
Humidity RH% 相对湿度	71.40		Type/Grade Of Abrasive 钢砂型号		/	Salt Test (mg/m²) 盐分		16.80	
Dew Point deg.C 露点	26.00		/		/	/		/	
Coating Application 油漆施工									
	First coat 第一层		Second coat 第二层		Third coat 第三层		Fourth coat 第四层		
Date 日期	2025-08-13		2025-08-14						
Air Temperature deg.C 空气温度	32.00		34.50						
Temperature Of Steel deg.C 钢材表面温度	31.70		34.10						
Humidity RH% 相对湿度	71.40		64.40						
Dew Point deg.C 露点	26.00		26.70						
Product Name 商品名	H53-9		BYF						
Manufacturer 生产商	武进延陵 Wujin Yanlin		上海博泛 Shanghai Bofan						
Batch No. 批次号	202501018		2025-07-011						
Exp. Date/有效期	20260116		20260630						
Color/颜色	灰色 GREY		铝色 Aluminium						
Minimum dry micron (um) 最小干膜厚度 Note 1	28.00		54.00						
Maximum dry micron (um) 最大干膜厚度 Note 1	109.00		211.00						
Average dry micron (um) 平均干膜厚度 Note 1	71.00		136.00						
Nos. of measurements 测量次数	5		5						
MEK test MEK 测试 If necessary	/								
Final Inspection 最终检验									
Adhesion Test 附着力测试	4A		/		/				
Valve List 阀门清单									
PO Item No. 客户项次号	Product Code 客户物料号	Serial No. 序列号	Qty 数量	Valve Description 阀门描述	PO Item No. 客户项次号	Product Code 客户物料号	Serial No. 序列号	Qty 数量	Valve Description 阀门描述
1	4G6BA5-NC-ULE1P	10049245-010-1	1	GATE VALVE.4G6B8.C00/5.&&&	2	4G6BA5-NC-ULE1P	10049245-020-1	1	GATE VALVE.4G6B8.C00/5.&&&
Inspector: 检验	Li Wenhao	Print Date: 日期	20250819		Reviewer: 审核	Chen Ming	Print Date: 日期	20250819	

Note 1: Accumulated DFT value for applied layer is identified in this line

			<h2 style="text-align: center;">Pressure Test Report</h2>				Report NO.: HPPR110049245A Print Date: 2025.08.19 Page: 1 of 1				
Customer			SUNBELT SUPPLY CO./MAJOR INC.			P.O No.			88340-00		
Project			SYNCRUDE 2026			Test Procedure			N/A		
Po item No.	SAP Item No.	Product Code	Description	Qty	Test Standard	Test	Test Medium	Pressure (MPa)	Duration (sec)	Result	
1	10049245-10	4G6BA5-NC-ULE1P	GATE VALVE,G.4,CLASS 600,WCB	1	API598 EN12266	Hydrostatic shell Test	Water	15.40	60	Accept	
						High-pressure Closure Test	Water	11.30	60	Accept	
						Backseat Test	Water	11.30	60	Accept	
						Low-pressure closure test	Air	0.60	60	Accept	
						Hydrostatic shell Test	Water	15.40	60	Accept	
2	10049245-20	4G6BA5-NC-ULE1P	GATE VALVE,G.4,CLASS 600,WCB	1	API598 EN12266	High-pressure Closure Test	Water	11.30	60	Accept	
						Backseat Test	Water	11.30	60	Accept	
						Low-pressure closure test	Air	0.60	60	Accept	
We hereby certify that the valve listed above are tested in accordance with the requirements of valve inspection and testing.											
Inspector:						Approved					

<div>NEWAY</div>		RADIOGRAPHIC TESTING REPORT 射线探伤报告 (Part I)				表码SAW-S6830-01			
						版本号2022			
						Report No 2025RT-019260			
Customer Name 客户名	NEWAY VALVE (SUZHOU) CO., LTD 苏州纽威阀门股份有限公司	Film No. 片号	IC9260		Test Date 检测日期 (年月日)	2025-05-16			
Inspection Lab. 检测单位	NEWAY INDUSTRIAL (DAFENG) CO., LTD 纽威工业材料 (大丰) 有限公司	Heat No. 产品炉号	90V59		Material 产品材料	WCB			
Product form 产品类型	■ Casting 铸件	Product Name 产品名称	■ Bonnet 盖		Product spec 产品规格	B6			
Heat treatment status 产品热处理状态	■ Normalized 正火	Source type 射线源种类	■ X-Ray		Image location 像质计位置	■ Source side 源侧			
Film type 胶片等级	■ Type II 胶片 II 级	Brand 胶片商标	■ FUJIFILM 富士 100B D		Film Size (mm): 胶片尺寸 (mm):	■ 115*120			
Screen size 增感屏	■ X-ray 0.13 0.25mm pb	SFD - FFD (mm) 焦距 (mm)	600		Image Sensitivity 像质计灵敏度	2.0%			
Focus Size (mm) 焦点尺寸 (mm)	■ X-ray 1×2.5	Radiographic Techniques RT 技术	■ SW-SV 单壁单影		Test Procedure 方法标准	■ ASME B16.34 & ASTM E91			
Acceptance Std. & Criteria 可接收标准	■ T < 50mm, A2 B3 C4 2C B3 CC 3 CD 3 ■ SRT	Std. of Reference Radiograph 评定标准	■ E416		Voltage 管电压 (kV)	270			
					Current 管电流 (mA)	5			
					Activity 源活度 (Ci)				
<div><div>Reference View</div><div><div><div>5</div><div>1</div><div>4</div></div><div><div><div>3</div><div>2</div></div><div><div><div>6</div><div>7</div></div><div><div><div>8</div><div>9</div></div></div></div><div>RT</div></div></div></div>									
Film No. 片号	Indication description 缺陷描述	Evaluate Result 片子评定结果			Thickness range 壁厚范围 (mm)	Density range 黑度范围	Image ID 像质计型号	Exp. time 曝光时间 (min. 分)	Remarks 备注
		Grade 等级	ACC 合格	Rej 不合格					
IC9260-1	ND	I	✓		19.5	1.5~4.0	ASTM IB-9	3.1	
IC9260-2	ND	I	✓		19.5	1.5~4.0	ASTM IB-9	3.1	
IC9260-3	ND	I	✓		19.5	1.5~4.0	ASTM IB-9	3.1	
IC9260-4	ND	I	✓		19.5	1.5~4.0	ASTM IB-9	3.1	
以下空白									
Defect codes for casting 铸件缺陷代号说明: A=Porosity 气孔, B=Slag 夹砂、夹渣, C=Crack 裂纹, D=Shrinkage 缩松 D=Crack 裂纹, E=Hot Tear 热裂纹, F=Inert 嵌入物, ND=No significant discontinuity 无缺陷.									
Defect codes for weld 焊缝缺陷代号说明: P=Porosity 气孔, L=Inclusion 夹杂, R=Incomplete penetration 未焊透, RP=Incomplete fusion 未熔合 COV=Root Concavity 内凹, C=Indenter 咬边, MA=Meanderment 错口, C=Crack 裂纹, ND=No significant discontinuity 无缺陷.									
Evaluated by 评定者:		Weiwei gao 高卫卫			Reviewed by 审核者:		Weidong 魏东		
RT qualification level: RT-II 资格等级: RT-II					RT qualification level: RT-II 资格等级: RT-II				
Date 日期: 2025-05-16					Date 日期: 2025-05-16				





RADIOGRAPHIC TESTING REPORT  
射线探伤报告 (Part II)

表码NW-S6830-01

版本号:2022

Report No:2025RT-2C-1154

Film No. 片号	Indication description 缺陷描述	Evaluate Result 片子评定结果			Thickness range 壁厚范围 (mm)	Density range 黑度范围	Image type 像质计型号	Exp. time 曝光时间 (min.)	Remarks 备注
		Grade 等级	ACC 合格	Rej 不合格					
2C 1154-13	B1	I	✓		35	1.5-4.0	ASTM IB-10	3.5	
2C 1154-14	ND	I	✓		35	1.5-4.0	ASTM IB-10	3.5	
2C 1154-15	ND	I	✓		35	1.5-4.0	ASTM IB-10	3.5	
2C 1154-16	B1	I	✓		35	1.5-4.0	ASTM IB-10	3.5	
2C 1154-17	ND	I	✓		25	1.5-4.0	ASTM IB-9	2.0	
2C 1154-18	B1CB2	II	✓		25	1.5-4.0	ASTM IB-9	2.0	
2C 1154-19	CB1	I	✓		25	1.5-4.0	ASTM IB-9	2.0	
2C 1154-20	ND	I	✓		25	1.5-4.0	ASTM IB-9	2.0	
2C 1154-21	ND	I	✓		25	1.5-4.0	ASTM IB-9	2.0	
2C 1154-22	ND	I	✓		25	1.5-4.0	ASTM IB-9	2.0	
2C 1154-23	B1	I	✓		25	1.5-4.0	ASTM IB-9	2.0	
2C 1154-24	B1	I	✓		25	1.5-4.0	ASTM IB-9	2.0	
2C 1154-25	B1	I	✓		25	1.5-4.0	ASTM IB-9	2.0	
2C 1154-26	B1	I	✓		25	1.5-4.0	ASTM IB-9	2.0	
2C 1154-27	B1	I	✓		25	1.5-4.0	ASTM IB-9	2.0	
2C 1154-28	ND	I	✓		25	1.5-4.0	ASTM IB-9	2.0	
2C 1154-29	ND	I	✓		25	1.5-4.0	ASTM IB-9	2.0	
2C 1154-30	B2CB1	II	✓		25	1.5-4.0	ASTM IB-9	2.0	
2C 1154-31	AB1CB1	I	✓		25	1.5-4.0	ASTM IB-9	2.0	
2C 1154-32	B1	I	✓		25	1.5-4.0	ASTM IB-9	2.0	
2C 1154-33	ND	I	✓		25	1.5-4.0	ASTM IB-9	2.0	
2C 1154-34	B1	I	✓		25	1.5-4.0	ASTM IB-9	2.0	
2C 1154-35	AB1	I	✓		25	1.5-4.0	ASTM IB-9	2.0	
2C 1154-36	ND	I	✓		25	1.5-4.0	ASTM IB-9	2.0	
2C 1154-37	B1	I	✓		25	1.5-4.0	ASTM IB-9	2.0	
2C 1154-38	B1	I	✓		25	1.5-4.0	ASTM IB-9	2.0	
2C 1154-39	B1	I	✓		25	1.5-4.0	ASTM IB-9	2.0	
2C 1154-40	ND	I	✓		25	1.5-4.0	ASTM IB-9	2.0	
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Defect codes of casting 铸件缺陷代号说明:

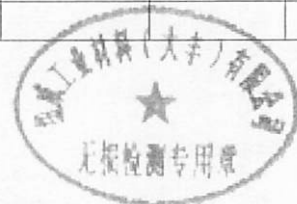
A-Porosity 气孔, B-Shot 夹砂, 夹渣, C A, C B, C C & C D-Shrinkage 缩松

D-Crack 裂纹, E-Hot Tear 热裂纹, F-Insert 嵌入物, ND-No significant discontinuity 无缺陷.

Defect codes of weld 焊缝缺陷代号说明:

P-Porosity 气孔, L-Inclusion 条渣, IP-Incomplete penetration 未焊透, IF-Incomplete fusion 未熔合,

COV-Root concavity 内凹, UC-Undercut 咬边, MA-Misalignment 错口, C-Crack 裂纹, ND-No significant discontinuity 无缺陷.



Evaluated by 评定者:

Weiwei.gao 高卫卫

Reviewed by 审核者:

Weidong.li 李卫东

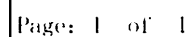
RT qualification level: RT-II  
资格等级: RT-II



RT qualification level: RT-II  
资格等级: RT-II

Date 日期: 2025-06-20

Date 日期: 2025-06-22

<div>NEWAY</div>		RADIOGRAPHIC TESTING REPORT 射线探伤报告 (Part I)				表码NW-S6630-01			
						版本号 2022			
						Report No 2025R1-2C1154			
Customer Name 客户名	NEWAY VALVE (SUZHOU) CO., LTD 苏州纽威阀门股份有限公司	Film No. 片号	2C1154		Test Date 检测日期(年月日)	2025-06-20			
Inspection Lab. 检测单位	NEWAY INDUSTRIAL (DAFENG) CO., LTD 纽威工业材料(大丰)有限公司	Heat No. 产品炉号	3060 V		Material 产品材料	WCB			
Product form 产品类型	■ Casting 铸件	Product Name 产品名称	■ body 阀体		Product spec 产品规格	16 6B			
Heat treat status 产品热处理状态	■ Solution 固溶	Source type 射线源种类	■ Ir192 192 铱 192		RT Location 像质计位置	■ Source side 源侧			
Film type 胶片等级	■ Type II 胶片 II 级	Brand 胶片商标	■ KODAK R 100 柯达 R 100		Film Size (mm): 胶片尺寸 (mm):	■ 210*80 ■ 180*80 ■ 120*80			
Screen size 增感屏	■ Ir192 0.2 0.2mm pb	SFD - FFD (mm) 焦距 (mm)	100		RT Sensitivity 像质计灵敏度	2.0%			
Focus Size (mm) 焦点尺寸 (mm)	■ Ir192 3*3	Radiographic Techniques RT 技术	■ SW 单壁单影		Test Procedure 方法标准	■ ASME B16.34 & ASTM E91			
Acceptance Std. & Criteria 可接收标准	■ 1 ≤ 50mm A2 B3 C4 2 C B3 C C3 C D3 ■ S-RT	Std. of Reference Radiograph 评定标准	■ E116		Voltage 管电压 (kV)				
					Current 管电流 (mA)				
					Activity 源活度 (Ci)	49			
<div></div>									
Film No. 片号	Indication description 缺陷描述	Evaluate Result 片子评定结果			Thickness range 壁厚范围 (mm)	Density range 黑度范围	RT Ident 像质计型号	Exp. time 曝光时间 (min)	Remarks 备注
		Grade 等级	ACC 合格	Rej 不合格					
2C1154-1	ND	I	✓		35	1.5-4.0	ASTM IB-10	3.5	
2C1154-2	B1	I	✓		35	1.5-4.0	ASTM IB-10	3.5	
2C1154-3	CB2	II	✓		35	1.5-4.0	ASTM IB-10	3.5	
2C1154-4	B1CB1	I	✓		35	1.5-4.0	ASTM IB-10	3.5	
2C1154-5	ND	I	✓		35	1.5-4.0	ASTM IB-10	3.5	
2C1154-6	B1	I	✓		35	1.5-4.0	ASTM IB-10	3.5	
2C1154-7	B1	I	✓		35	1.5-4.0	ASTM IB-10	3.5	
2C1154-8	B1	I	✓		35	1.5-4.0	ASTM IB-10	3.5	
2C1154-9	B1	I	✓		35	1.5-4.0	ASTM IB-10	3.5	
2C1154-10	B1	I	✓		35	1.5-4.0	ASTM IB-10	3.5	
2C1154-11	B1	I	✓		35	1.5-4.0	ASTM IB-10	3.5	
2C1154-12	ND	I	✓		35	1.5-4.0	ASTM IB-10	3.5	
Defect codes for casting 铸件缺陷代号说明: A - Porosity 气孔, B - Shrink 夹砂, 夹渣, C - CB, CC & CD - Shrinkage 缩松 D - Crack 裂纹, E - Hot Tear 热裂纹, F - Inert 嵌入物, ND - No significant discontinuity 无缺陷									
Defect codes for weld 焊缝缺陷代号说明: P - Porosity 气孔, I - Inclusion 条渣,条孔, IP - Incomplete penetration 未焊透, UN - Incomplete fusion 未熔合 COV - Root Concavity 内凹, LC - Undercut 咬边, M - M. Indication 缺陷, CC - Crack 裂纹, ND - No significant discontinuity 无缺陷									
Evaluated by 评定者:		Weiwei gao 高卫卫			Reviewed by 审核者:		Weidong. 魏东		
RT qualification level: RT-II 资格等级: RT-II					RT qualification level: RT-II 资格等级: RT-II				
Date 日期: 2025-06-20					Date 日期: 2025-06-22				



		<h1 style="text-align: center;">Material Test Report</h1> <h2 style="text-align: center;">EN10204-2004 TYPE 2.2</h2>			Rev.No.: 2025 Report No.: MTR210049245A Page: 1 of 1	
Customer		SUNBELT SUPPLY CO. MAJOR INC.				
P.O No.		88340-00				
PO Item NO.	Neway Item No.	Part Name	Material	Result	Product code	
1	10049245-10	BACKSEAT	420-NC	Satisfactory	4G6BA5-NC-ULE1P	
1	10049245-10	GASKET	304+GRAPHITE	Satisfactory	4G6BA5-NC-ULE1P	
1	10049245-10	GLAND	420-NC	Satisfactory	4G6BA5-NC-ULE1P	
1	10049245-10	GLAND FLANGE	A105N	Satisfactory	4G6BA5-NC-ULE1P	
1	10049245-10	PACKING ASSEMBLY	EDP 17	Satisfactory	4G6BA5-NC-ULE1P	
1	10049245-10	SEAT RING	A105N+STL. 6	Satisfactory	4G6BA5-NC-ULE1P	
1	10049245-10	SPACER RING	420-NC	Satisfactory	4G6BA5-NC-ULE1P	
2	10049245-20	BACKSEAT	420-NC	Satisfactory	4G6BA5-NC-ULE1P	
2	10049245-20	GASKET	304+GRAPHITE	Satisfactory	4G6BA5-NC-ULE1P	
2	10049245-20	GLAND	420-NC	Satisfactory	4G6BA5-NC-ULE1P	
2	10049245-20	GLAND FLANGE	A105N	Satisfactory	4G6BA5-NC-ULE1P	
2	10049245-20	PACKING ASSEMBLY	EDP 17	Satisfactory	4G6BA5-NC-ULE1P	
2	10049245-20	SEAT RING	A105N+STL. 6	Satisfactory	4G6BA5-NC-ULE1P	
2	10049245-20	SPACER RING	420-NC	Satisfactory	4G6BA5-NC-ULE1P	
We hereby certify that material was manufactured, sampled, tested and inspected in accordance with the material specification and customer requirements.						
Client Inspector		Date		Quality Director		Date 2025.08.19
No.666 Taishan Road, Suzhou New District, P.R. China Tel: 86-512-666-51365						



# MATERIAL TEST REPORT

## EN 10204-2004 Type 3.1

TC No. 10049245-20(81405688)  
PAGE: 7 OF 7

### MATERIAL COMPONENTS AND PROPERTIES

Material	Heat treatment	Temp °C (°F)	Holding time (h)	Cooling media	Furnace
ASTM A216 WCB	NORMALIZED	850~950 (1562~1742°F)	III/25MM, >=III	AIR	Gas
					Gas

We hereby certify that the material are manufactured, inspected and tested in accordance with the material specification and purchase order requirements.

PART NAME	MATERIAL	HEAT NO.	CHEMICAL ANALYSIS											MECHANICAL PROPERTIES				
			C	Mn	Si	S	P	Cr	Ni	Mo	Cu	V	C.E.	TS	YS/Rp	E	R	HARD
		MAX.	0.2300	1.2800	0.6000	0.0300	0.0350	0.5000	0.5000	0.2000	0.3000	0.0300		655	250	22	35	237
		MIN.												485				146

CE: C+Mn/6+ (Cr+Mo+V) / 5+ (Ni+Cu) / 15 ≤ 0.43

BODY	ASTM A216 WCB	396DV	0.1550	1.0610	0.4740	0.0070	0.0250	0.0620	0.0230	0.0030	0.0130	0.0040	0.348	530	370	33	48	146
BONNET	ASTM A216 WCB	9DV59	0.1640	1.1410	0.4740	0.0060	0.0200	0.0450	0.0240	0.0020	0.0120	0.0020	0.366	535	365	30	44	146
WEDGE	ASTM A216 WCB	53UC3	0.2270	0.8560	0.4770	0.0080	0.0230	0.0780	0.0270	0.0070	0.0230	0.0010	0.390	545	311	31	52	158



**MATERIAL TEST REPORT**  
**EN 10204-2004 Type 3.1**

TC No. 10049245-20(81405688)  
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## MATERIAL COMPONENTS AND PROPERTIES

Material	Heat treatment	Temp. <sup>o</sup> C (°F)	Holding time (h)	Cooling media	Furnace
ASTM A182 F6a CL2-NC	QUENCHED	1000 ~ 1020 (1832 ~ 1868°F)	1H/25MM, >=1H	OIL COOLED	ELECTRIC
ASTM A182 F6a CL2-NC	TEMPERED	>= 675 (1247°F)	1H/25MM, >=1H	AIR	ELECTRIC
ASTM A182 F6a CL2-NC	TEMPERED	>= 621 (1150°F)	1H/25MM, >=1H	AIR	ELECTRIC

We hereby certify that the material are manufactured, inspected and tested in accordance with the material specification and purchase order requirements.

We hereby certify that the material are manufactured, inspected and tested in accordance with the material specification and purchase order requirements.

## CHEMICAL ANALYSIS

## MECHANICAL PROPERTIES

		C	Mn	Si	S	P	Cr	Ni									TS MPa	YS/Rp 0.2MPa	E %	R %	HARD HB	IMPACT TEST VALUE TEMP. °C:
	MAX.	0.1500	1.0000	1.0000	0.0300	0.0400	13.500	0.5000													229	Avg.
	MIN.						11.500										585	380	18	35	200	Min: 1 2 3

[illegible]





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Material	Heat treatment	Temp °C (°F)	Holding time(h)	Cooling media	Furnace
ASTM A193 B7M	QUENCHED	≥850 (1562°F)	1H/25MM, ≥1H	OIL	ELECTRIC
ASTM A193 B7M	TEMPERED	≥620 (1148°F)	1H/25MM, ≥1H	AIR	ELECTRIC

We hereby certify that the material are manufactured, inspected and tested in accordance with the material specification and purchase order requirements.

We hereby certify that the material are manufactured, inspected and tested in accordance with the material specification and purchase order requirements.

PART NAME	MATERIAL	HEAT NO.	CHEMICAL ANALYSIS										MECHANICAL PROPERTIES										
			C %	Mn %	Si %	S %	P %	Cr %	Mo %						TS MPa	YS/Rp 0.2MPa	E %	R %	HARD HB	IMPACT TEST VALUE TEMP °C:			
		MAX.	0.4800	1.0000	0.3500	0.0400	0.0350	1.1000	0.2500										235	Avg.		Min:	
		MIN.	0.3800	0.7500	0.1500			0.8000	0.1500						690	550	18	50	200	1	2	3	

[illegible]



**MATERIAL TEST REPORT**  
**EN 10204-2004 Type 3.1**

TC No. 10049245-20(81405688)  
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## MATERIAL COMPONENTS AND PROPERTIES

Material	Heat treatment	Temp °C (°F)	Holding time (h)	Cooling media	Furnace
ASTM A105N	NORMALIZED	850 ~ 920 (1562 ~ 1688°F)	1H/25MM, ≥ 1H	AIR	ELECTRIC FURNACE

## MECHANICAL PROPERTIES

## CHEMICAL ANALYSIS

	C %	Mn %	Si %	S %	P %	Cr %	Ni %	Mo %	Cu %	V %	C.E. %	TS MPa	YS/Rp 0.2MPa	E %	R %	HARD HB	IMPACT TEST VALUE			
																	TEMP °C:			
																	Avg.	Min:		
MAX.	0.3500	1.0500	0.3500	0.0400	0.0350	0.3000	0.4000	0.1200	0.4000	0.0800						197	1	2	3	
MIN.		0.6000	0.1000									485	250	22	30					

[illegible]





TC No. 10049245-20(81405688)  
PAGE: 3 OF 7

Material	Heat treatment	Temp °C (°F)	Holding time (h)	Cooling media	Furnace
ASTM A194 2HM	QUENCHED	≥ 850 (1562°F)	1H/25MM, ≥ 1H	OIL	ELECTRIC
ASTM A194 2HM	TEMPERED	≥ 620 (1148°F)	1H/25MM, ≥ 1H	AIR	ELECTRIC
We hereby certify that the material are manufactured, inspected and tested in accordance with the material specification and purchase order requirements.					

We hereby certify that the material are manufactured, inspected and tested in accordance with the material specification and purchase order requirements.

PART NAME	MATERIAL	HEAT NO.	CHEMICAL ANALYSIS										MECHANICAL PROPERTIES									
			C	Mn	Si	S	P								TS	YS/Rp	E	R	HARD	IMPACT TEST VALUE		
			%	%	%	%	%								MP <sub>24</sub>	0.2MP <sub>24</sub>	%	%	HB	TEMP °C;		
		MAX.		1.0000	0.4000	0.0500	0.0400												235	Avg.		
		MIN.	0.4000																159	1	2	3

[illegible]

HT-396DV-9DV59 - 3501092232



MATERIAL TEST REPORT  
EN 10204-2004 Type 3.1

TC No. 10049245-20(81405688)  
PAGE: 2 OF 7

PRODUCT TRACEABILITY TABLE

SERIAL NO.	MATERIAL CODE AND HEAT NO.			TAG NO.	SERIAL NO.	MATERIAL CODE AND HEAT NO.			TAG NO.
	BODY ASTM A216 WCB	BONNET ASTM A216 WCB	WEDGE/DISC ASTM A216 WCB			BODY ASTM A216 WCB	BONNET ASTM A216 WCB	WEDGE/DISC ASTM A216 WCB	
10049245-020-1	396DV	9DV59	53UC3	/					



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CUSTOMER:		QTY.	PART NO.	PRODUCT CODE	PRODUCT DESCRIPTION						
SUNBELT SUPPLY CO./MAJOR INC.		1	12607786	4G6BA5-NC-ULE1P	4G6B8.C00/5,&&&&  LLPL1-NVL-NC-B7M/2HM] ASTM A216 WCB, TRIM F6A/FULL HF GATE VALVE, 4 INCH, CLASS 600, BUTT WELDING END						
PO NO.: 88340-00 ITEM NO.: 2 PROJECT: SYNCRUDE 2026		PRESSURE TEST (MPa / PSI)				OTHER INSPECTION					
		SHELL	SEATS /BACKSEAT	SEATS	RESULT	VISUAL	DIMENSION	OPERATION	MARKING		
		HYDROSTATIC	HYDROSTATIC	PNEUM	Accepted	Accepted	Accepted	Accepted	Accepted		
		15. 4 /2233	11. 3 / 1638	0. 6 / 87							
PROJECT NO.: 980002249											

## APPLICABLE STANDARDS AND SPECIFICATION

- 1- P/T RATING: ASME B16.34  
 1- MAIN MATERIAL: RELEVANT ASTM STANDARD  
 1- DESIGN: API600 ASME B16.34  
 1- TEST: API598 EN12266  
 1- TRIM MATERIAL (SEAT/STEM) AND BOLTING ARE ACCORDING TO THE P.O. AND MATERIAL SPECIFICATION  
 1- VALVES CONFORM TO NACEMR0175/0103 LATEST REVISION  
 NOTE: ALL RELATED STANDARDS ARE THE LATEST VERSION UNLESS SPECIFIED BY PURCHASE ORDER.

PO #: 350697232  
Item #: 10  
SPM #: LVGW3501  
CAT. 4  
Sunbelt Supply Co.

WITNESSED BY:

We hereby certify that the valves listed above are manufactured and tested in accordance with the requirements of valve standard and purchase order.

NEWAY VALVE  
Quality Director  
DATE: 2025.08.19