Ship to: Latte Project
JEFFERSON LAB
MIKE DICKEY BLDG 55 RM2500 07/28/24

12000 JEFFERSON AVE NEWPORT NEWS, VA 23606

Bill to: FERMI NATIONAL LABORATORY apinvoices@fnal.gov

PO BOX 500

 Telephone
 :800-443-8817

 Fax
 :510-887-0626

 Giro
 :

 Tax exempt number
 :

 Enterprise
 number



## Packing slip

Number SPS-0407854
PO number 672577
Ship date 7/24/2021
Page 1 of 5
Sales order SO-218445

Requisition : ITEM 1
Our ref. : 1251
Mode of delivery : FED EX 2 DAY
Terms of delivery : FOB Orig Collect
Freighted by : Carrier

Line #	Item number	Revision	Description Search name	Orde	ered Ur	nit	Delivered	Remaining quantity
	205690-01	A	SPEC# FLANGE A - F10060 CAVITY 1Weldment flange of drawing F10060827. Flange silkscreened as Cavity 1 per silkscreen input.Material 304 Stainless steel SPEC#FLANGEAF1006082	A per s are /316L	1.00 E <i>P</i>	ACH	11.00	
Quanti	ty: 11.00 Site: 01							
	205690-02	A	SPEC# FLANGE A - F10060 CAVITY 2Weldment flange A drawing F10060827. Flange silkscreened as Cavity 2 per silkscreen input.Material 304 Stainless steel SPEC#FLANGEAF1006082	A per s are /316L	.00 EA	ACH	11.00	
Quanti	ty: 11.00 Site: 01							

Receipt:	

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**PO BOX 500** 

Telephone : 800-443-8817 Fax : 510-887-0626 Giro : :

Tax exempt number ....:
Enterprise number ....:



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SPS-0407854
PO number ..... 672577

Sales order SO-218445

Requisition :: ITEM 1 Our ref. :: 1251

Mode of delivery .... : FED EX 2 DAY
Terms of delivery ... : FOB Orig Collect
Freighted by ... : Carrier

Line #	Item number	Revision	Description Search name	Ord	lered Ur	nit	Delivered	Remaining quantity
	205690-03	A	SPEC# FLANGE A - F1006 CAVITY 3Weldment flange drawing F10060827. Flange silkscreened as Cavity 3 pe silkscreen input.Material 30 Stainless steel SPEC#FLANGEAF1006082	A per es are r 4/316L	1.00 EA	ACH	11.00	
Quanti	ty: 11.00 Site: 01 205690-04	A	SPEC# FLANGE A - F1006 CAVITY 4Weldment flange drawing F10060827. Flange silkscreened as Cavity 4 pe silkscreen input.Material 30- Stainless steel SPEC#FLANGEAF1006082	A per es are d 4/316L	1.00 EA	ACH	11.00	

Quantity: 11.00 Site: 01

Ship to: JEFFERSON LAB MIKE DICKEY BLDG 55 RM2500 12000 JEFFERSON AVE NEWPORT NEWS, VA 23606

Bill to: FERMI NATIONAL LABORATORY apinvoices@fnal.gov

**PO BOX 500** 

Telephone ...... 800-443-8817 Fax ..... 510-887-0626

Giro ....: Tax exempt number ....: Enterprise number .....:



## Packing slip



SPS-0407854 Number PO number ..... 672577

Ship date ..... 7/24/2021 of 5

Sales order SO-218445

Requisition ..... ITEM 1 Our ref. ...... 1251

Mode of delivery ...... FED EX 2 DAY Terms of delivery .....: FOB Orig Collect Freighted by ..... Carrier

Description Line # Item number Revision Search name Ordered Unit Delivered Remaining quantity 205690-05 SPEC# FLANGE A - F10060827,7 A 11.00 EACH 11.00 CAVITY 5Weldment flange A per drawing F10060827. Flandes are silkscreened as Cavity 5 per silkscreen input.Material 304/316L Stainless steel SPEC#FLANGEAF10060827CAVITY Quantity: 11.00 Site: 01 205690-06 SPEC# FLANGE A - F10060827, 11.00 EACH 11.00 CAVITY 6Weldment flange A per drawing F10060827. Flanges are silkscreened as Cavity 6 per silkscreen input.Material 304/316L Stainless steel SPEC#FLANGEAF10060827CAVITY Quantity: 11.00 Site: 01

MATERIAL CERT Certification of Material 1.00 EACH

CertificationofMaterial

1.00

Quantity: 1.00 Site: 01

#### Backorder

Item number 205690-07

Remaining Description quaShip date SPEC# FLANGE A - F10060827, 17/26/2021 CAVITY 7

Weldment flange A per drawing F10060827. Flanges are silkscreened as Cavity 7 per silkscreen input. Material 304/316L Stainless steel

Bill to:

Telephone :: 800-443-8817 Fax :: 510-887-0626

Giro .....

Tax exempt number .....

Enterprise number .....

Packing slip



Ship to: JEFFERSON LAB MIKE DICKEY BLDG 55 RM2500 12000 JEFFERSON AVE NEWPORT NEWS, VA 23606

FERMI NATIONAL LABORATORY

apinvoices@fnal.gov

**PO BOX 500** 

Number SPS-0407854

PO number : 672577
Ship date : 7/24/2021
Page : 4 of 5

Sales order SO-218445

Requisition :: ITEM 1
Our ref. :: 1251

Mode of delivery : FED EX 2 DAY
Terms of delivery : FOB Orig Collect
Freighted by : Carrier

Terms of delivery ....

Description Line # Item number Search name Revision Ordered Unit Delivered Remaining quantity Remaining Item number Description quaShip date 205690-08 SPEC# FLANGE A - F10060827. 17/26/2021 CAVITY 8 Weldment flange A per drawing F10060827. Flanges are silkscreened as Cavity 8 per silkscreen input. Material 304/316L Stainless steel LEAK CHECK Certificate of Leak Check 7/30/2021 NRE-CHARGE WELDER CERTIFICATION 7/30/2021

Tracking numbers

#### Certificate of certification

This is to certify that the material referenced on the above PO and listed on the attached pick list were manufactured to the customer's requirements or to MDC's internal drawings

Materials used in the production of this order are certified as new and not counterfeit. Any deviation to specifications has been authorized by the customer.

MDC Precision, LLC is an ISO 9001:2008 registered company. Key elements of our fully implemented Quality Management System include our Quality Manual, Quality Policy, Product Objectives, Process Measurements, Design Capability and Validation, detailed production process travelers, Corrective / Preventive Action system, Nonconforming Material System, Calibration, First Article / first Piece / CNC Program qualification Process, Internal Audits, and Sub-Supplier Program.

Quality Management Contact: MDC Precision, LLC Hayward, CA (510) 265-3500

#### **Return Policy:**

- -Unused standard catalog items may be returned within 30 days of the date the item was shipped, provided the item is properly packaged and shipping charges are pre-paid.
- -Special order items may not be returned without specific, pre-approval from MDC.
- -All returns must have a RMA number assigned by Customer Service.
- -Returned items will not be accepted if the revision has changed or the material is now obsolete.
- Please check with Customer Service prior to returning items.
- -Installed, used or damaged items are not eligible for reprocessing and will be returned with no credit applied.
- -A minimum of 25% restocking fee applies.
- -Items should be returned freight prepaid as collect shipments will not be accepted.

#### Note:

Please note: We are in the process of updating our branding and changing our legal name from MDC Vacuum Products, LLC to MDC Precision, LLC. We anticipate completing the transition by the end of 2020 and will notify you once this change is officially completed. In the interim, please continue to send all purchase orders, confirmations, notifications and remittances to MDC Vacuum Products, LLC.

There will be up to a \$500.00 evaluation charge for non-warranty repairs. This evaluation fee will be credited to the repair cost if the repair is ordered.

The evaluation fee plus applicable return shipping charges will be assessed for any returned item you elect not to repair.

A \$50 fee will be applied to any returned item requested to be scrapped



## **Leak Test Certificate**

Part Number 205690-99	DATE 7/23/2021
Production Order 431254	Quantity 168
PO Number	Sales Order Number
Serial Number	
- A	
E	quipment
Treficer III 2000 coriel # 000	001202652

Standard Leak serial #	<sup>‡</sup> 90001381627	calibration due: 3/03/2022	
☑ Inficon UL1000 - set	rial # 90001133469		
Standard Leak serial #	<sup>‡</sup> 90001283803	calibration due: 3/03/2022	
☐ Agilent VSMD30 - se	erial # MY1608007		
Standard Leak serial #	# MY1816P112	calibration due: 10/9/2021	

#### **Test Specifications**

Test is based on a maximum allowable leak	rate of 2 x 10 <sup>-10</sup> cc/sec of helium unless	•
otherwise specified below.		
Other specified allowable leak rate:		

#### Results

MDC certifies that the product(s) listed on this document passed the above tests and were conducted by qualified personnel, on calibrated equipment, to the specifications listed above.

Tested By:

Remarks:



#### MDC PRECISION

30962 Santana St. • Hayward CA 94544 • Web: www.MDCPrecision.com

# Special Certificate of Conformance

Customer PO Number	MDC Sales Order Number	Description:	Part Number	Qty.
PO-672577	SO-218450 SO-218452	WELDMENT FLANGE B PRODUCTION	205691-99	168

MDC certifies that the material referenced above meets all customer PO requirements. All welds were in accordance with ASME Section IX version 2021. All work performed was per our ISO Quality Management System which is registered with TUV through 9/30/21, Registration #74 300 9502. Additionally, MDC certifies that the product is not suspect, used, or counterfeit.

#### Heidi Richardson

**Quality Assurance** 

e-mail: hrichardson@mdcprecision.com

Phone: (510) 265-3500

Date: 01/01/21

Form No.: 10-15.1 Rev. D



#### **Product Certification Report**

Report Number: 5746510

PHONE 260.434,2800 - FAX 260,434,2801	Certi	find o	n 1///	10 00	2.0	_			
Certified on May 19, 2020   Page 1 of 2		2							
OA20000661 0150 4/26/20									
The same of the sa									1
F 0000	to a release construction	Cust		se Order					
202303	0008000	001 67	149						
5						Customer G	rade		
	Rough Tu	rned				316/3:	16L		1
	Bill of Lading	#							
120.000 Min. 108.000 Max.	PL20001	728/1	006	630 LBS	3				
UNI DDIININ AMETRICA	1979							-	
1 10 FO DESTONE	*	4	VALBE	RUNA STA	INLE	SS TNO	~		
Ship 13950 BENSON AVE		Cald	2400	TAYLOR	STRE	ET WE	au.		
- CHING. LA GIZZO			FORT	WAYNE.	TN A	6802	31		
10		To		,		0004			
	:								
9									
TICL									
Lifts: 0013 0016									
	5653J			A STIM	11.01	1.0			
Condition A EN 1						19			
QQ-S-763F ASTM									
ASTM A182-19A Chem only ASTM				ADIM	A3/U-	19e1	20.00		
ACM CLOSE		ED .		ASME	SA182	-14 (20	17)	(Che	m)
LOTTICE LATER TO THE PARTY OF T	A314-19	1217		SAE-A	MS QQ	-S-763E	)		
		Ja		ASTM	A4/3-	17A (Ch	em)		
CHEMICAL ANALYSIS (Weight %)	DA404 IVE	<u> </u>		ASTM	A193-	19 GR E	38M C	1.1	
0 1/	·	27.							
- B1		(5.00-5.00)							
	10.04	10.07	2.07	.59	.13	.08			
HBW									
156				0.					
ROOM TEMP TENSILE ASTM E8-16a									
	4.7 W.D.A								
03500									
	.0 19.1	+							
MACRO									
OK									
GRAIN SIZE ASTM E112-13									
	3+4 s= V								
1111111111111		A							
ASTM A262-15 PR E(A H+iligad)	100								
OVITTO									-
	lagnificat				(HR)				
Free of mercury and low malting allows		500	125	0	1.50				
Solution annealed at 1900F min, and water	mination,			F					
No welding or weld repair done	luenched (he	eating tim	e & tem	ip appropri	ate for	optimu	n dua	ality)	
Electric Furnace melted: AOD refined				-			Terr		
Chemical testing to one or more of the list of	A CTTD A								¥
E1019-18 E1086-14	ASIM met	hods:							
Location of tensile fractural inside and the			9						
Chemical Analysis performed at A arising	gage length	. %elong	after fra	icture.					
Chemical Analysis performed at Acciaierie	valbruna, Ita	aly.							

Results relate only to the items tested. Certification shall not be reproduced except in full, without written approval of Valbruna Stainless Inc. The recording of false, fictitious, or fraudulent statements on this document may be punished as a felony under federal statutes. Including Federal law Title 18, Chapter 47. Consult material safety data sheet (MSDS) for hazard info. I hereby certify that the reported figures are correct as contained in the records of the corporation.

Manager Laboratory Services

Annmarie C Asiala

email: AAsiala@valbruna.us



## **Product Certification Report**

Report Number: 5746510

	260.434.2800 - FA	X 260.434.2801		Cert	ifie	d on	Marr	10	2020	_			
Order I.D.		Order Date		Commodity Co	de	4 011	May	19,	2020	Page	_2_	of	2
OA20000661	0150	4/26/20		316D7.	0								
Dim 1	Dim 2	Heat I	I.D.	Customer I.D.		Custom	er Purchas	e Order					
7.0000	.0000	282	563	000800	0061			o o laci					
Product Shape		Product	Surface	1 2	7								
Round		HR =	and	Rough T	11 2020 0 6					Customer G			
Length (Inches)			2110	Bill of Ladir						316/3	16L		
120.000	N.C.						elght						
120.000	IVIIII.	L68.000 I	Max.	PL2000	1728/	1	006	630	LBS				
				1	1.								

VALBRUNA STAINLESS, INC 13950 BENSON AVE CHINO, CA 91710

VALERUNA STAINLESS INC.

Sold 2400 TAYLOR STREET WEST
FORT WAYNE, IN 46802

No mercury or low melting alloy contamination. No weld repair.

Material melted in Italy, manufactured in the United States.

Conforms to listed specifications.DFARS-BAA 252,225-7009 compliant. Heat treat furnaces-air atmosphere.

Quality system is compliant with ISO 9001:2015. Produced in accordance with EN 10204 3.1.

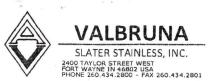
Results relate only to the items tested. Certification shall not be reproduced except in full, without written approval of Valbruna Stainless Inc. The recording of false, fictitious, or fraudulent statements on this document may be punished as a felony under federal statutes. Including Federal law Title 18, Chapter 47. Consult material safety data sheet (MSDS) for hazard info. I hereby certify that the reported figures are correct as contained in the records of the corporation.

Manager Laboratory Services

Annma

email. AAsiala@valbruna.us

F0030490Z



## **Product Certification Report**

Report Number: 5733140

story for the lateral parts of the second

FRONE 260,434,2800 - FAX 260,434,2801	Certif	ied o	n Apr	06, 2	2020 Pa	ge 1 o	f 1
Order I.D. Order Date	Commodity Code	0 0	vo."	-			
OA19000862 0070 5/23/19	304D2.0						
Dim 1 Dim 2 Heat I,D.	Customer I.D.		tomer Purchas	se Order			
2.0000 .0000 281329 Product Shape Product Surface	00080000	61 62	994				
					Qust	omer Grade	
Round Turned/I	Burnished	Cold		shed	30	4/304L	
	Bill of Lading #		Weight				
132.000 Min. 156.000 Max.	PL200013	91/1	011	_570 I	LBS		
VALBRUNA STAINLESS, INC 13950 BENSON AVE CHINO, CA 91710	:	Sold To	2400	TAYLO	STAINLESS OR STREET E, IN 468	WEST	
Lifts: 0013 0014 0015 0016							
	ition A			NI A	TE MD0175/T	.00 15151	
NACE MR0103-2015 UNS S AMS 5639J AMS 5 SAE-AMS QQ-S-763D ROHS	330400 and 6647K COMPLIANT	S30403		AS	CE MR0175/I FM A479-19 FM A276-17	80 15156-3	3 2015
CHEMICAL ANALYSIS (Weight %)							
C Mn P S Si	Cr	Ni	Mo	Cu	N		
.022 1.72 .030 .030 .41	18.38	8.11	.46	.45	.08		
BRINELL Type A device E10-18							
HBW							
171							
ROOM TEMP TENSILE ASTM E8-16a							
TS (PSI) .2%YS (PSI) %EL (46	50. 5) Managarana						
87000 42000 51.	0 70.0						
MACRO ASTM E340-15/E381-17 MACRO							
MAGRO OK							
GRAIN SIZE ASTM E112-13							
GRAIN SIZE Etchant Magnifica	tion V						
6 Oxalic							
ASTM A262-15 PR E(A Utilized)	100						
	agnificati	on X	SENS (E	7) 97	ENS (HR)		
		500	125		1.50		
Free of mercury and low melting alloy conta		700	122	70	1.30		
Electric Furnace melted; AOD refined.							
Chemical testing to one or more of the listed	ASTM meth	ods:					
E1019-18, E1086-14.							
ocation of tensile fracture: inside middle of	gage length.	%elong	after fr	acture.			
nemical Analysis performed at Acciaierie	/albruna Ita	lv					
No mercury or low melting alloy contaminat	ion. No weld	repair.					
Material melted in Italy, manufactured in the	United State	20					
Material conforms to listed specifications. D	FARS compl	liant. Ou	r heat tr	eat furn	aces use air a	atmosphere	
Quality system is compliant with ISO 9001:2	2015. Produc	ed in acc	cordance	with E	EN 10204 3.1		
esults relate only to the items tested. Certification	on shall not be	reprodu	ced ever	ant in ful	Lyuithout water		
, and the second	and that be		COUL CALL	21.71 111 1111	I VVIIIOIII W/ritte	an approval o	t 1/albr

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Manager Laboratory Services

email: AAsiala@valbruna.us

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