

#### **United States of America** Department of Homeland Security **United States Coast Guard**

Certification Date: 31 Jul 2020 31 Jul 2021 **Expiration Date:** 

# Temporary Certificate of Inspection

For ships on international voyages this certificate fulfills the requirements of SOLAS 74 as amended, regulation V/14, for a SAFE MANNING DOCUMENT.

This Temporary Certificate of Inspection is issued under the provision of Title 46 United States Code, Section 399, in lieu of the regular certificate of inspection, and shall be in force only until the receipt on board said vessel of the original certificate of inspection, this certificate in no case to be valid after one year from the date of inspection.

Vessel Name

Official Number

IMO Number

Call Sign

**FMT 2066** 

1301709

Tank Barge

Hailing Port

Hull Material

Horsepower

Propulsion

NEW ORLEANS, LA

Steel

UNITED STATES

Place Built

**Delivery Date** 

Keel Laid Date

Gross Tons

**Net Tons** 

DWI Length

ORANGE, TX

31Jul2020

17Feb2020

R-1185

R-1185

R-245.0

1-0

**UNITED STATES** 

CONRAD ORANGE SHIPYARD INC 710 MARKET STPO BOX 1670 ORANGE, TX 77631-1670 **UNITED STATES** 

KIRBY INLAND MARINE LP 18350 MARKET STREET CHANNELVIEW, TX 77530 UNITED STATES

This vessel must be manned with the following licensed and unlicensed Personnel. Included in which there must be 0 Certified Lifeboatmen, 0 Certified Tankermen, 0 HSC Type Rating, and 0 GMDSS Operators.

0 Masters

0 Licensed Mates

0 Chief Engineers

0 Chief Mates

0 First Class Pilots

0 First Assistant Engineers

0 Second Mates 0 Third Mates

0 Radio Officers 0 Able Seamen

0 Second Assistant Engineers 0 Third Assistant Engineers

0 Master First Class Pilot

0 Ordinary Seamen

0 Licensed Engineers

0 Mate First Class Pilots

0 Deckhands

0 Qualified Member Engineer

In addition, this vessel may carry 0 Passengers, 0 Other Persons in crew, 0 Persons in addition to crew, and no Others. Total Persons allowed: 0

Route Permitted And Conditions Of Operation:

#### ---Lakes, Bays, and Sounds plus Limited Coastwise---

Also, in fair weather only, not more than twelve (12) miles from shore between St. Marks and Carrabelle, Florida.

This vessel has been granted a fresh water service examination interval per 46 CFR 31.10-21(a)(2). If this vessel is operated in salt water more than 6 months in any 12 month period, the vessel must be inspected using salt water intervals per 46 CFR 31.10-21(a)(1) and the cognizant OCMI notified in writing as soon as this change in status occurs.

#### \*\*\*SEE NEXT PAGE FOR ADDITIONAL CERTIFICATE INFORMATION\*\*\*

With this Inspection for Certification having been completed at PORT ARTHUR, TX, UNITED STATES, the Officer in Charge, Marine Inspection, Marine Safety Unit Port Arthur certified the vessel, in all respects, is in conformity with the applicable vessel inspection laws and the rules and regulations prescribed thereunder.

Annual/Periodic/Re-Inspection					
Date	Zone	A/P/R	Signature		
8					

This certificate issued by:

J.J. ANDREW, CDR, USCG, By direction

Officer in Charge, Marine Inspection

Marine Safety Unit Port Arthur

Inspection Zone



#### **United States of America** Department of Homeland Security **United States Coast Guard**

Certification Date: 31 Jul 2020 31 Jul 2021 **Expiration Date:** 

# Temporary Certificate of Inspection

Vessel Name: FMT 2066

---Hull Exams---

Exam Type

Next Exam

Last Exam

Prior Exam

DryDock

31Jul2030

31Jul2020

Internal Structure

31Jul2025

31Jul2020

### --- Liquid/Gas/Solid Cargo Authority/Conditions ---

Authorization:

LIQUIFIED FLAMMABLE GAS

**Total Capacity** 

Units

Highest Grade Type Part151 Regulated Part153 Regulated Part154 Regulated

16101

Barrels

LFG

Yes

No

No

#### \*Hazardous Bulk Solids Authority\*

Not Authorized

#### \*Loading Constraints - Structural\*

Tank Number

Max Cargo Weight per Tank (short tons)

Maximum Density (lbs/gal)

P/S

1645

5.17

#### \*Conditions Of Carriage\*

Inspected and approved for the carriage of liquefied flammable gases (LFGs) at a pressure not to exceed 265 psig and at temperatures not less than ambient. Those LFGs that have been authorized for carriage are identified by their CHRIS Code in the Loading Constraints below.

Mixtures of the Subchapter D liquified flammable gas cargoes listed below are also authorized for carriage subject to the loading and stability constraints of the least dense cargo in the mixture.

Mixtures of Subchapter O and D liquefied gas cargoes not specified below must be approved by the Marine Safety Center prior to being authorized for carriage.

Per 46 CFR 150.130, the Person In Charge of the vessel is responsible for ensuring that the compatibility requirements of 46 CFR 150 are met. Cargoes must be checked for compatibility using the figures, tables, and appendices of 46 CFR 150.

The maximum tank weights listed below reflect uniform (within 5%) loading at the deepest draft allowed. When carrying Subchapter O cargoes at shallower drafts, the barge should always be loaded uniformly.

Loading Constraints - Structural

Tanks	Cargo	o (Chris Code)	Max. Cargo Wgt/Each Tank (ST)	Max. Density (lbs/gal)
P/S	BDI	822	5.17	
P/S	BBM	811	5.16	
P/S	BUT	775	4.88	
P/S	IBT	733	4.69	
P/S	BTN	778	5.00	
P/S	PRP	634	4.25	
P/S	PPL	647	4.35	

Loading Constraints - Stability

Cargo (Chris Code) Route Max Load (ST) Max Draft (ft,in) Max. Density (lbs/gal)

BDI	R.LÉS 1645	8' 5.50"	5.17
	'	8' 5.25"	5.16
BBM	R,LBS 1621		7.7.7
BUT	R,LBS 1550	8' 2.25"	4.88
<b>i</b> BT	R,LBS 1466	8' 0.25"	4.69
RTN	R.LBS 1557	8' 3.50"	5.00



#### **United States of America Department of Homeland Security United States Coast Guard**

31 Jul 2020 Certification Date: **Expiration Date:** 31 Jul 2021

# Temporary Certificate of Inspection

Vessel Name: FMT 2066

**PRP** PPL

R,LBS 1269

7' 7.50" 7' 8.50"

4.25

R,LBS 1293 4.35

--- Inspection Status ---

\*Cargo Tanks\*

Internal Exam

External Exam

Tank Id

Previous

Last

Previous Next

Last

Next

P/S

31Jul2020

31Jul2030

Hydro Test

Previous

Last

Next

Tank ld P/S

Safety Valves 31Jul2020

--- Conditional Portable Fire Extinguisher Requirements---

Required Only During Transfer of Cargo or Operation of Barge Machinery

--- Fire Fighting Equipment ---

\*Fire Extinguishers - Hand portable and semi-portable\*

Quantity

Class Type

B-II

\*\*\*END\*\*\*



CONRAD ORANGE SHIPYARD INC. 710 MARKET ST. ORANGE TX. 77631 409-883-6666

# **Hydro Test**

COS Hull number	HULL-527 ON 200527	DATE	6-9-202C
Project Information	Shop Supervisor _		
System Tested	Cargo and Vapor pipe Spool pieces	s	
Test Conditions	Time N/A Tempe	erature (if known)	N/A
	Test pressure (PSI)450 Test ty	ype Water	Air Other
Inspection	Leak(s) detected No	Yes	
	Leak description		
Hydrostatic Test Water Sampling Requirements: Notes	Water Discharge Date: 7-7-222 Time: 1  1. During the process of the test was Chlori If yes water must be tested per Conrad Hy  2. Was the discharge of hydrostatic test water previously contained prouct or waste relater If yes water must be tested per Conrad Hy	ine used? YES C ydrostatic Permit er from an existing ed petroleum prou	vessels that
Signatures  COS  Customer	Jedol Hayo	Date	le-9-2020
ABS	(	Date	
USCG	N See		13 July 2020
Contractor		Date	9
Other		Date	e



Sales Order # 880284

Job # \_3232202LUL

# **New Pressure Relief Valve Test Report**

H522

Type: Threaded

Birth #: Date:

00JEVN

Monday, December 30, 2019

Shipped Date: 2019/12/30

Owner: W & O SUPPLY (VAC)

Plant: LaPorte, TX

Customer #: PO #: 1491072

$\checkmark$
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	THE PARTY OF THE P					
Tag Number		Location	N/A	Other Tag Data	N/A	
Most Recent	Yes (Relief Valve)	Unit	N/A	Client/Asset #	N/A	
Manufacturer		Valve Size & Orifice	$1 \times 1.5 = 0.226 \text{ IN}^2$	In/Outlet Rating	MNPT / FNPT	Γ
Model Number	19226MCF-2-CC-MS-31-MT-FT-L	A S/N	M-18-022794-043-018	Cap Type	Screwed	
Soft Seat Mat'l	N/A	Soft Seat P/N	N/A	Special Cleaning?	No	
Service		Product Name	LIQUID	Applicable Code	Sec VIII	
Pilot Model	****Pilot Information when a	applicable**** Pilot Model (Full)	****Pilot Information	n when applicable*** Pilot Serial	*	
Set Pressure	300 PSIG	Total Back Pressure	O DOIC /	Cold Diff Test Press	300 PSIG	
Operating Temp	72 F	BP Is / Constant	1	ASME Capacity		N.F
Mfg Lift		Restricted Lift	1	Orifice		Diam538
		1 tootholou Ent	1771		POIC	
Req'd Spring	W5090NC	Material	17-7 PH	From / To	291 to 316	
Hydro Verified?	B.GUILLOT	Operating Pressure	200 PSIG	P. IB	A1 111 1	
Checked-In By		Gauge 1 ID	LUL00492	Final Preparation		, !
Dimensions By		Gge 2/EVT S/N	LUL00491		Matches Valve	
Measured Lift		Final Test Press	301 PSIG	Client Re	eq'ments Check	
Disc Rock	΄	Result (Seats Tight)@	Passed @ 271 PSIG		Valve Painted Valve Boarded	! i
Overlap Collar		BP Test @	Passed @ 30	The state of the s	Tag Attached	
Assembled By		Date Tested	2019/12/11	Nameplate/Req'd		
•	ł	Tested By	P.FABRE	Replacement Par		
BD Ring-Up	•	Witnessed By	R.ANDERSON		Stamp Applied	
BD Ring-Low	:	Final Inspected By	<b>.</b>		stments Sealed	
Test Media		CI/QC Inspector	i e		lj'd & Strapped	
Test Method	Bench	2 2.2 moposion			Plugs Installed	
			, ; ;	Sp Clean	Valve Bagged	N/A
Comments			Description			·

TORQUED TO 510 FT/LBS LUL00563





## **New Pressure Relief Valve Test Report**

H522

Type: Threaded

Birth #: Date:

00JEVP

Monday, December 30, 2019

SE15241

Description

Shipped Date: 2019/12/30

Owner: W & O SUPPLY (VAC)

Cap Type

Screwed

Plant: LaPorte, TX

Customer #: PO#: 1491072

Sales Order # 880284

Job # 3232202LUL

N/A Tag Number Location N/A Other Tag Data N/A Most Recent Yes (Relief Valve) Unit N/A Client/Asset # N/A Manufacturer Consolidated Valve Size & Orifice  $1 \times 1.5 = 0.226 \text{ IN}^2$ In/Outlet Rating | MNPT / FNPT Model Number 19226MCF-2-CC-MS-31-MT-FT-LA S/N

Soft Seat Mat'l N/A Special Cleaning? Soft Seat P/N N/A No Service Non-compressible Product Name LIQUID Applicable Code | Sec VIII \*\*\*Pilot Information when applicable \*\*\*\* \*\*\*\*Pilot Information when applicable\*

Pilot Model Pilot Model (Full) Pilot Serial

Set Pressure 300 PSIG Total Back Pressure 0 PSIG Cold Diff Test Press 300 PSIG Operating Temp 72 F BP Is / Constant O ASME Capacity 104 US G/MIN Mfg Lift N/A Restricted Lift N/A Orifice Bore Diam. .538

Rea'd Spring | W5090NC Material 17-7 PH

Operating Pressure Hydro Verified? J.WARD **200 PSIG** Gauge 1 ID LUL00492 Checked-In By J.WARD Gge 2/EVT S/N LUL00491 Dimensions By J.WARD Final Test Press **302 PSIG** Measured Lift N/A Result (Seats Tight)@ Passed @ 273 PSIG

Disc Rock IN BP Test @ Passed @ 30 Overlap Collar N/A Date Tested | 2019/12/11 Assembled By P.FABRE JW Tested By P.FABRE BD Ring-Up N/A Witnessed By J.WARD BD Ring-Low N/A

Final Inspected By J.WARD Test Media Water CI/QC Inspector C. Austin Test Method Bench

From / To | 291 to 316 Final Preparation Checklist Birth# Matches Valve Yes Client Req'ments Check Yes Valve Painted Yes Valve Boarded N/A Client ID Tag Attached Yes Nameplate/Req'd Tags Attached Yes Replacement Parts Pres. Tested N/A VR/Code Stamp Applied Yes Ext Adjustments Sealed Yes Lever Adj'd & Strapped N/A Flg Cover/Plugs Installed Yes Sp Clean Valve Bagged N/A

TORQUED TO510 FT/LBS LUL00563

Comments





# **Test Report**

HSLL

Type: Threaded

Birth #:

00JEVL

Owner: W & O SUPPLY (VAC)

Plant: LaPorte, TX

Sales Order # 880284

Job# 3232202LUL

Date: Monday, December 30, 2019

Shipped Date: 2019/12/30

Customer #: PO#: 1491072

Tag Number	N/A	Location	N/A	Other Tag Data	N/A
Most Recent	Yes (Relief Valve)	Unit	N/A	Client/Asset #	N/A
Manufacturer		Valve Size & Orifice	$1 \times 1.5 = 0.226 \text{ IN}^2$	In/Outlet Rating	MNPT / FNPT
Model Number	19226MCF-2-CC-MS-31-MT-FT-L	A S/N	M-18-022794-042-007	Сар Туре	Screwed
Soft Seat Mat'l	N/A	Soft Seat P/N	N/A	Special Cleaning?	No
Service	Non-compressible	Product Name		Applicable Code	Sec VIII
	****Pilot Information when a	ipplicable****	****Pilot Informatio	n when applicable***	*
Pilot Model		Pilot Model (Full)		Pilot Serial	
Set Pressure	300 PSIG	Total Back Pressure	0 PSIG	Cold Diff Test Press	
Operating Temp	72 F	BP Is / Constant	!	ASME Capacity	
Mfg Lift	N/A	Restricted Lift	N/A	Orifice	Bore Diam537
Req'd Spring	W5090NC	Material	17-7 PH	From / To	291 to 316
Hydro Verified?	P.BORDELON / BG	Operating Pressure		Final Preparation	on Checklist
Checked-In By	B.GUILLOT	Gauge 1 ID	LUL00492		Matches Valve Yes
Dimensions By	B.GUILLOT	Gge 2/EVT S/N	LUL00491		eq'ments Check Yes
Measured Lift	N/A	Final Test Press	301 PSIG	Choir ix	Valve Painted Yes
Disc Rock	IN F	Result (Seats Tight)@	Passed @ 271 PSIG		Valve Boarded N/A
Overlap Collar	5	BP Test @	Passed @ 30	Client II	Tag Attached Yes
Assembled By	i e	Date Tested	2019/12/11		Tags Attached Yes
BD Ring-Up	1	Tested By	P.FABRE		rts Pres. Tested N/A
·	T. Control of the Con	Witnessed By	R.ANDERSON	VR/Code	Stamp Applied Yes
BD Ring-Low	t .	Final Inspected By	R.ANDERSON		istments Sealed Yes
Test Media		CI/QC Inspector	C. Austin		ij'd & Strapped N/A
Test Method	Bench				Plugs Installed Yes
			1	Sp Clean	Valve Bagged N/A
Comments			Description	<u> </u>	

TORQUED TO 510 FT/LBS LUL00563





# New Pressure Relief Valve Test Report

H522

Type: Threaded

Page 1 of 1

Birth #: Date:

00JEVM

Monday, December 30, 2019

Shipped Date: 2019/12/30

Owner: W & O SUPPLY (VAC)

Plant: LaPorte, TX

Customer #: PO #: 1491072

Sales Order # 880284 Job # 3232202LUL

Job#\_3232202LUL

Tag Number		Location	N/A	Other Tag Data	N/A
Most Recent	Yes (Relief Valve)	Unit	N/A	Client/Asset #	N/A
Manufacturer		Valve Size & Orifice		In/Outlet Rating	MNPT / FNPT
	19226MCF-2-CC-MS-31-MT-FT-L	A S/N	SE15234	Cap Type	Screwed
Soft Seat Mat'l	N/A	Soft Seat P/N	N/A	Special Cleaning?	No
Service	Non-compressible	Product Name	LIQUID	Applicable Code	Sec VIII
Pilot Model	****Pilot Information when a	pplicable**** Pilot Model (Full)	****Pilot Informat	ion when applicable*** Pilot Serial	*
Set Pressure	300 PSIG	Total Back Pressure	0 PSIG	Cold Diff Test Press	300 PSIG
Operating Temp	72 F	BP Is / Constant	0	ASME Capacity	104 UŞ G/MIN
Mfg Lift	N/A	Restricted Lift	N/A	Orifice	Bore Diam537
Req'd Spring	W5090NC .	Material	17-7 PH	From / To	291 to 316
Hydro Verified?	J.BOYLE	Operating Pressure		Final Preparation	on Checklist
Checked-In By	J.BOYLE	Gauge 1 ID	1	· · · · · · · · · · · · · · · · · · ·	Matches Valve Yes
Dimensions By	J.BOYLE	Gge 2/EVT S/N	LUL00491		eq'ments Check Yes
Measured Lift	N/A	Final Test Press	301 PSIG	Chone IX	Valve Painted Yes
Disc Rock	IN F		Passed @ 271 PSIG		Valve Boarded N/A
Overlap Collar		BP Test @	Passed @ 30	Client II	Tag Attached Yes
Assembled By		Date Tested	2019/12/11		Tags Attached Yes
BD Ring-Up		Tested By	P.fabre		ts Pres. Tested N/A
BD Ring-Low		Witnessed By	B.simmons	i	Stamp Applied Yes
Test Media		Final Inspected By	B.simmons		stments Sealed Yes
Test Method		CI/QC Inspector	C. Austin		lj'd & Strapped N/A
1 CSt Wisting	Donon		1		Plugs Installed Yes
Comments			Description	Sp Clean	Valve Bagged N/A

TORQUED TO 500 FT/LBS LUL00563



Sales Order # 880284

## New Pressure Relief Valve Test Report

H522

Type: SRV

Birth #: Date: 00JEVJ

Monday, December 30, 2019

Shipped Date: 2019/12/30

Owner: W & O SUPPLY (VAC)

Plant: LaPorte, TX

Customer #: PO #: 1491072

Job # <u>3232</u>	2201LUL			PO #: 1491072	
Tag Number	N/A Yes (Relief Valve)	Location	N/A N/A	Other Tag Data Client/Asset #	
Manufacturer	<u> </u>	Valve Size & Orifice	6 Q 8 = 11.05 IN^2		300# RF / 150# RF
Soft Seat Mat'l	N/A	Soft Seat P/N	N/A	Special Cleaning?	No
Service	Compressible	Product Name	VAPOR	Applicable Code	Sec VIII
Pilot Model	****Pilot Information when a	pplicable**** Pilot Model (Full)		tion when applicable*** Pilot Serial	*
Set Pressure Operating Temp Mfg Lift	72 F	Total Back Pressure BP Is / Constant Restricted Lift	None	Cold Diff Test Press ASME Capacity Orifice	61747 SCFM
Req'd Spring	0619CR	Material	ALLOY STEEL	From / To	256 to 294
11 1 10 17 25 10	N. WODLING D.	Operating Procesure	120 PSIG		

Description

Req'd Spring	0619CR	Material	ALLOY STEEL	Fron
Hydro Verified? Checked-In By	N. KORUTZ RA N. KORUTZ /RA	Operating Pressure Gauge 1 ID	LUL00493	Final Pre
- ;	N. KORUTZ RA	Gge 2/EVT S/N Final Test Press		CI
Measured Lift Disc Rock		Result (Seats Tight)@		
Overlap Collar		_	Passed @ 30	. C
•	N. KORUTZ RA	Date Tested Tested By	N. KORUTZ RA	Nameplate Replacem
BD Ring-Up BD Ring-Low		-	R. ANDERSON	VR
Test Media		Final Inspected By		Ez Le
Test Method	Bench	CI/QC Inspector	C. Austin	Fig

Final Preparation Checklist

Birth# Matches Valve Yes
Client Req'ments Check Yes
Valve Painted Yes
Valve Boarded Yes
Client ID Tag Attached Yes
Nameplate/Req'd Tags Attached
Replacement Parts Pres. Tested
VR/Code Stamp Applied
Ext Adjustments Sealed
Lever Adj'd & Strapped
Flg Cover/Plugs Installed
Sp Clean Valve Bagged
N/A

Valve Converted on Date: 2019/12/10 Authorized By: Elizabeth Bourgeois

AS070 Rev. 20 - Machine Spring Washers

Comments

TORQUED TO 1255 FT/LBS LUL00561





AS070 REV. 20-MACHINE SPRING WASHERS

# New Pressure Relief Valve Test Report

Type: SRV

Birth #:

00JUU0

Owner: W & O SUPPLY (VAC)

Sales Order # 906167 Job # 3392271LUL Date:

Tuesday, May 26, 2020

Plant: LaPorte, TX

Shipped Date:

Customer #: PO #: 1507873

		•				
Tag Number	N/A	Location	N/A	Other Tag Data		
Most Recent	Yes (Relief Valve)	Unit	N/A	Client/Asset #		
Manufacturer	Consolidated	Valve Size & Orifice	$6 Q 8 = 11.05 \text{ IN}^2$	In/Outlet Rating	300# RF / 150#	FRF
Model Number	1910-00Q-3-CC-MS-31-RF-GS-		SE21580	Cap Type		
Soft Seat Mat'l	N/A	Soft Seat P/N	N/A	Special Cleaning?	No	
Service	Compressible	Product Name	VAPOR	Applicable Code	Sec VIII	
	****Pilot Information wher	applicable****	****Pilot Informat	ion when applicable*** Pilot Serial		
Pilot Model		Pilot Model (Full)			265 PSIG	
Set Pressure	265 PSIG	Total Back Pressure	0 PSIG	Cold Diff Test Press	h	
Operating Temp		BP is / Constant	1	ASME Capacity Orifice		Diam. 4.046
Mfg Lift	1.09 IN	Restricted Lift	N/A	Office	Q 1Bole I	Jiaiii. 4.0 K
Req'd Spring	0619CR	Material	ALLOY STEEL	From / To	256 to 294	
Hydro Verified?	R.ANDERSON	Operating Pressure		Final Preparati	on Checklist	
Checked-In By		Gauge 1 ID	LUL00493		Matches Valve	Yes
		Gge 2/EVT S/N	LUL00475		eq'ments Check	
Dimensions By	· '	Final Test Press	267 PSIG	Ollone	Valve Painted	
Measured Lift		Result (Seats Tight)@	Passed @ 241 PSIG		Valve Boarded	T T
Disc Rock		BP Test @	Passed @ 30	Client II	D Tag Attached	N/A
Overlap Collar		Date Tested	2020/05/21	Nameplate/Req'd		
Assembled By		Tested By	R.ANDERSON	Replacement Pa		
BD Ring-Up	N/A	Witnessed By	J.SMITH		Stamp Applied	
BD Ring-Low	25 Notches	-	J.SMITH	Ext Adju	istments Sealed	Yes
Test Media	Air		J. Rickenbacker		dj'd & Strapped	
Test Method	Bench	CI/QC Inspector	J. ISIONOHOMONOI		/Plugs Installed	
Torque Information				Sp Clear	n Valve Bagged	N/A
Comments			Description			
			· <del>  · · · · · · · · · · · · · · · · · ·</del>			



## New Pressure Relief Valve Test Report

Type: SRV

Birth #:

00JCKT

Owner: W & O SUPPLY (VAC)

Sales Order # 876506

Date: Monday, De Shipped Date: 2019/12/30

Monday, December 30, 2019

Plant: LaPorte, TX Customer #:

Job # 3201230LUL

PO #: 1488617

Tag Number	N/A	Location	N/A	Other Tag Data	N/A
Most Recent	Yes (Relief Valve)	Unit	N/A	Client/Asset #	
Manufacturer	Consolidated	Valve Size & Orifice S/N	6 Q 8 = 11,05 IN^2 SE08478	Cap Type	300# RF / 150# RF Screwed
Soft Soot Matt	N/A	Soft Seat P/N	N/A	Special Cleaning?	No
Service	Compressible ****Pilot Information when a	Product Name pplicable**** Pilot Model (Full)	****Pilot Informat	Applicable Code lion when applicable*** Pilot Serial	Sec VIII
Pflot Model Set Pressure Operating Temp Mfg Lift	265 PSIG 72 F	Total Back Pressure BP Is / Constant Restricted Lift	0 PSIG 0	Cold Diff Test Press ASME Capacity	
Req'd Spring	0619CR	Material	ALLOY STEEL	From / To	256 to 294
Hydro Verified? Checked-In By Dimensions By Measured Lift Disc Rock Overlap Collar	C.HARDING C.HARDING CA C.HARDING CA N/A IN N/A C.HARDING CA N/A 25 Notches Air	Operating Pressure Gauge 1 ID Gge 2/EVT S/N Final Test Press esult (Seats Tight)@ BP Test @ Date Tested Tested By Witnessed By Final Inspected By GI/QC Inspector	LUL00493 LUL00475 269 PSIG Passed @ 242 PSIG Passed @ 30 2019/11/20 J. WARD L.DUPONT L.DUPONT	Client Re Ctient II Nameplate/Req'd Replacement Pa VR/Code Ext Adju Lever Ad Flg Coven	Matches Valve Yes cq'ments Check Yes Valve Painted Yes Valve Boarded Yes D'Tag Attached Yes Tags Attached Yes Tags Attached Yes Stamp Applied Yes signed Strapped N/A Plugs Installed Yes Talve Bagged N/A

Valve Converted on Date: 2019/11/13 Authorized By: Elizabeth Bourgeois

AS070 Rev. 20 - Machine Spring Washers

TORQUED TO 125 FTYLBS LUL00565



# INTEGRATED SOLUTIONS

## **New Pressure Relief Valve Test Report**

Type: SRV

Birth #:

OOJUTZ

Owner: W & O SUPPLY (VAC)

Date: Sales Order # 906167

Thursday, May 21, 2020

Plant: LaPorte, TX Customer #:

Shipped Date:

PO#: 1507873

Job # 33922	71LUL			PO #: 1507873	
Most Recent Manufacturer Model Number Soft Seat Mat'l I Service Pilot Model Set Pressure	N/A Yes (Relief Valve) Consolidated 1910-00Q-3-CC-MS-31-RF-GS-HF N/A Compressible ****Pilot Information when a 265 PSIG 80 F	Soft Seat P/N Product Name	6 Q 8 = 11.05 IN^2 SE21578 N/A VAPOR ****Pilot Informati	Other Tag Data Client/Asset # In/Outlet Rating Cap Type Special Cleaning? Applicable Code Ion when applicable*** Pilot Serial Cold Diff Test Press ASME Capacity	N/A 300# RF / 150# RF Screwed No Sec VIII  265 PSIG
Mfg Lift	1.09 IN 0619CR	Restricted Lift Material	N/A ALLOY STEEL	Orifice	
Hydro Verified? Checked-In By Dimensions By Measured Lift Disc Rock Overlap Collar Assembled By BD Ring-Up	E.GUERRERO E.GUERRERO E.GUERRERO N/A N/A IN N/A E.GUERRERO N/A 25 Notches Air	Operating Pressure Gauge 1 ID Gge 2/EVT S/N Final Test Press tesult (Seats Tight)@ BP Test @ Date Tested Tested By Witnessed By Final Inspected By CI/QC Inspector	LUL00493 LUL00475 266 PSIG Passed @ 239 PSIG Passed @ 30 2020/05/19 E.GUERRERO R.ANDERSON R.ANDERSON	Client Re Client II Nameplate/Req'd Replacement Pa VR/Code Ext Adju Lever Ac	on Checklist  Matches Valve eq'ments Check Valve Painted Valve Boarded O Tag Attached I Tags Attached Its Pres. Tested Stamp Applied Istments Sealed dj'd & Strapped Plugs Installed In Valve Bagged  Matches Yes Yes Ves N/A Yes N/A Yes N/A
	CHINE SPRING WASHERS			N 2020/05/19 WITH SPRIN	IG # 0619CR RANGE

256-294

ValuKeep



# VALVE TEST CERTIFICATE / CERTIFICATE OF CONFORMANCE

SK

Certificate No.:	953703-1		PAGE: 1 OF 4
	VA	LVE INFORMATION	
S.O.#/P.O.#	953703	S.O. ITEM#	1
VALVE TYPE	TRUNNION BALL VALVE	MODEL NUMBER	4706A3311KVB00
SIZE	6"	SERIAL NUMBER	SK19110036~0066
CLASS	300	QUANTITY	31

VALVE DETAIL								
BODY/ADAPTER	ASTM A182 F316	BALL	ASTM A182 F316/HC					
STEM	ASTM A182 F316	TRUNNION	ASTM A182 F316					
SEAT INSERT	TFM 1600	SEAT	ASTM A182 F316					
SEALS	GRAPHITE	O-RINGS	VITON					
BOLTS	A193 B8M	NUTS	A194 8M					

VALVE DESIGN CODE									
DESIGN CODE:	ASME B16.34	YES	DESIGN CODE:	<u>ASME B16.5</u>	YES				
	API 6D / ISO 14313	YES		API 607 Rev 5	YES				
	<u>ASME B16.10</u>	YES							
			NACE MI	R0175/ISO 15156	YES				

VALVE TEST RESULTS										
TEST PREFORMED	CODE	HYDRO SHELL	HYDRO SEAT	AIR SEAT	BACK SEAT					
PRESSURE- PSI/ MPA /BAR		MPA/PSI	MPA/PSI	MPA/PSI	MPA/PSI	**				
TEST PRESSURE	API 6D	7.8/1125	5.7/825	0.55/80	-	-				
DURATION (MINUTES MIN.)	API 6D	5	5	5	-	-				
TEST RESULTS		PASS	PASS	PASS	-	-				
DIMENSIONAL CHECK	B16.10	PASS	-	-	-					
VISUAL	MSS-SP-55	PASS	-	-	**	-				

We certify all valves indicated in this certificate are manufactured, inspected and tested in accordance with standards noted.

DATE:

December 5, 2019





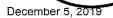
### TRACEABILITY SHEET

SERIAL NO.	BODY HEAT #	ADAPTER HEAT#	BALL HEAT #	STEM HEAT#	BOLTING HEAT#	NUT HEAT#
SK19110036	1	AL1119	AL9222J3	AL8232	1901-92	17-11-38
1 ~66						
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31	<del>                                      </del>	<b>— X</b>	<del>  21)</del>			
32		质量部				
33						
34						
35 DATE:	5/Dec/19		1		<u> </u>	



#### **MATERIAL TEST REPORT - EN10204 3.1**

Certificate No.:	953703-1												PAGE:	3 OF 4	
					СН	<b>EMICA</b>	L ANAL	YSIS							
Component	Material	Heat-No.	C (%)	Mn (%)	Si (%)	Cr (%)	Ni (%)	Mo (%)	P (%)	S (%)	Cu (%)	V (%)	N (%)	Residual Elements	Carbon Equivalent
	<b>A182 F316</b> REV 19	Requirements	≤0.08	≤2,00	≤1.00	16.0-18.0	10,0-14,0	2,0-3,0	≤0.045	≤0,030	_	1	≤ 0,1	_	_
BODY	F316	AL7088K13	0.014	1.060	0.440	16.110	10.060	2.040	0.038	0.005			0.050		<del>-</del>
ADAPTER	F316	AL7088K13	0.014	1.060	0.440	16.110	10.060	2.040	0.038	0.005			0.050		
								<u> </u>		<del></del>			<u> </u>	<u> </u>	
Component	Material	Heat-No.	C (%)	<b>M</b> n (%)	Si (%)	Cr (%)	Ni (%)	Mo (%)	P (%)	S (%)	Cu (%)	V (%)	N (%)	Residual Elements	Carbon Equivalent
	A182 F316 REV 19	Requirements	≤0,08	≤2.00	≤1.00	16.0-18.0	10.0-14.0	2.0-3.0	≤0.045	≤0,030	_	-	≤ 0.1		1
BALL	F316	AL9222J3	0.016	1.049	0.685	17.300	10.030	2.020	0.042	0.002			0.059	<u> </u>	
STEM	F316	AL8232	0.015	1.207	0.671	16.800	10.100	2.218	0.040	0.003			0.047		
						<u> </u>		<u> </u>				<u>—</u>	<u> </u>	<u> </u>	
		I	.l	L	<u> </u>		J	1		1		<u> </u>			
Component	Material	Heat-No.	C (%)	Mn (%)	Si (%)	Cr (%)	Ni (%)	Mo (%)	P (%)	S (%)	Cu (%)	(%)	Nb (%)	Residual Elements	Carbon Equivalent
STUDS	A193 B8M REV 17	Requirements	≤0.08	≤2,00	≤1.00	16,0-18,0	10,0-14,0	2.00-3,00	≤0,045	≤0,030	1	-	_	_	_
NUTS	A194 8M REV 17a	Requirements	≤0.08	≤2,00	≤1.00	16.0-18.0	10.0-14.0	2,00-3,00	≤0.045	≤0.030	1	1	-	_	_
STUDS	B8M	1901-92	0.026	1.058	0.586	16.550	10.080	2.060	0.030	0.009			<u> </u>	_	
	8M	17-11-38	0.052	1.005	0.601	16.580	10.080	2.090	0.029	0.009		多数		校交	l —





### **MATERIAL TEST REPORT - EN10204 3.1**

Certificate No.:	953703-1						PAGE -	4 OF 4	
				MECHANICAL	_ PROPERTIE	S			
Component	Material	Heat-No.	Yield strength ksi (MPA)	Tensile strength ksi (MPA)	Elongation (%)	Reduction of area (%)	Impact Value (J) @ -46 deg C	Hardness BHN	
	A182 F316 REV 19	Requirements	≥30(≥205)	≥75(≥515)	≥30	≥50	<u>-</u>	≤234	
BODY	F316	AL7088K13	295	589	45	68		165	
ADAPTER	F316	AL7088K13	295	589	45	68		165	
						_			
								_	
Component	Material	Heat-No.	Yield strength ksi (MPA)	Tensile strength	Elongation (%)	Reduction of area	Impact Value (J) @ -46 deg C	Hardness BHN	
9.000	A182 F316 REV 19	Requirements	≥30(≥205)	≥75(≥515)	≥30	≥50	_	S234	
BALL	F316	AL9222J3	307	565	39	63		162	
STEM	F316	AL8232	235	524	47	70	<u></u>	153	
			<del>-</del>				<u> </u>		
					_	<b>—</b>			
Component	Material	Heat-No.	Yield strength ksi (MPA)	Tensile strength	Elongation (%)	Reduction of area	Impact Value (J) @ -73 deg C	Hardness BHN	
STUDS	A193 B8M REV 17	Requirements	≥30(≥205)	≥75 (≥515)	≥30	≥50	_	≤223	
NUTS	A194 8M REV 17a	Requirements		_	-	_	_	126-300	
STUDS	B8M	1901-92	320	631	43	67		180	
f		1		<del>,</del>			<u> </u>		

#### HEAT TREATMENT STATUS (IF APPLICABLE)

17-11-38

F316: Solution Treatment 1040°C, 4 hours, cooling in water.

8M

NUTS

B8M: Solution Treatment 1050°C, 1 hours, cooling in air.

8M: Solution Treatment 1050°C, 1 hours, cooling in air.

We certify all materials are manufactured inspected and tested in accordance with material specification and MR0175/ISO 15156.

265

December 5, 2019