

Certificate for Machinery Equipment

Valves others

This is to certify that the undersigned Surveyor to LLOYD'S REGISTER did at the request of the below client, attend the testing and examination of the product(s) described below in accordance with the relevant Rules and Regulations for the Classification of Ships and found it/them satisfactory.

General information

Customer	Jotron Skipper AS
Purchase Order No	127124
Manufacturer	Jotron Skipper AS
Intended for	Warehouse
Customer Work Order No	130622
Date of issue	12 January 2024
Quantity	2 Batch

Particulars

Description	Seavalves with flanges inspection
Size	2x 65 mm and 2x 100mm
Valve body material	EN 1.4408
Test pressure body	24
Test pressure seat	7
Design pressure	-
Set pressure if applicable	Tested with 5 bar at Skipper
Quantity	4

Identification Marks On Product

I.D number	LR OSL2400020
Surveyors initials	-
Date of inspection	10.01.2024

Remarks

No remarks raised

Johannes Nordtveit
Lloyd's Register EMEA
A subsidiary of Lloyd's Register Group Limited



Page 2 of 2
Certificate No. OSL2400020
First Date of Inspection 10 January 2024
Final Date of Inspection 10 January 2024
Office Oslo

Description	Manufacturer Designation	Serial Number	IMO Number
SB-100-SB-LR		24024 and 24025	0
DB-60-SA-LR		24026 and 24027	0

PICKING LIST

SKIPPER

SKI-NO: PWO/127124

CASE. 127123



Printed: 08.01.2024 - 10:58

Operation number Operation Manufacturing area Remaining quantity
PRODUCTION **2 stk**

Note
SB-100-SB-LR

Stockloc / Details	Assignment	Quantity	Product
For operation number 100			
1-PALL-00 1-PALL-00 23 stk	SSA/131085-1	✓ 2 stk	ZCC-01015 Main element, Ball Valve DN100 PN16/3.1.B
For operation number 200			
1-PALL-00 1-PALL-00 7 stk	SSA/131281-1	✓ 2 stk	db-2051 2305 * 2 Intermediate element for xB-100-xB casted
1-PALL-03 1-PALL-03 696 stk	SSA/131171-1	16 stk	ZOA-01075 Screw M16x55 mm DIN933 A4-80
1-PALL-06 1-PALL-06 18 stk	SSA/131998-1	✓ 2 stk	SB-2019 567560 * 2 4923 Bottom flange for SB-100-xx
1-PALL-07 1-PALL-07 30 stk	SSA/131943-1	2 stk	DB-2031 Top Flange for XB-100/200-XX
1-S-74 1-S-74 171 stk	SSA/129962-1	2 stk	DB-2040 Washer Ø46x2,5 Ø32,5 for XB-60/100/200-XX
1-T-01 1-T-01 596 stk	SSA/131319-1	24 stk	ZOA-01036 Nut M16 DIN934 A4
1-T-01 1-T-01 64 stk	SSA/131610-1	4 stk	DB-2035 Gasket Ø47/32,5 X 20mm for XB-60/100/200-XX
1-T-02 1-T-02 838 stk	SSA/131169-1	24 stk	ZOA-01035 Spring washer M16 DIN127B A4
1-T-02 1-T-02 28 stk	SSA/131814-1	2 stk	DB-2036 Nut M50 Brass for XB-60/100/200-XX
3-E-04 3-E-04 979 stk	SSA/126680-1	4 stk	ZZA-01127 Metallised polyester label on roll

Additional parts

Product	Stockloc	Quantity
GVA-LR Sea Valve approval from Lloyds Register		2 stk

B / C

S.no. 24024 - TC9A / TC9A
 24025 - TC9A / TC9A

SKIPPER Electronics A/S
 Enebakkveien 150
 P.O.Box 151 Manglerud
 N-0612 OSLO

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 Web page: www.skipper.no

SKIPPER
 C.O. reg no: NO-965378847-MVA

INSPECTION & TEST PROTOCOL FOR SEA VALVE

Document No: Q12-TI-0108-02 2023

SKIPPER sea valve Serial No.:	24024
Class certificate no.:	

Class stamp and certificate no. shall be stamped on main element and bottom flange (welding part)

Class: DNV ABS BV LR RINA NK

Sea valve Type:

		-SA	-SB	-LA	-LB	-F1	SLB	SJB
SB-60		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		
DB-60		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		
SB-100		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
DB-100		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
ETN- 100mm							<input type="checkbox"/>	<input type="checkbox"/>
SB-200-Echo	<input type="checkbox"/>							

Assembly, Items Serial No. / Batch No. / Charge No.:

	<u>Heat no</u> <u>Body</u>	<u>Heat no</u> <u>Cap</u>	<u>Skipper Part</u> <u>No.</u>
Valve Element:	TC9A	TC9A	ZCC-01015
Intermediate Element:		2305	DB-2051
Bottom Flange:		567560	SB-2019
Intermediate flange (for DB valves)			

Visual Inspection:

Performed without remarks:

Pressure Test:

Working pressure 2 bar
 Tested for 5 minutes with 5 bar pressure,
 According to procedure no. 02-Q12_Pressure testing Gate_ball Valve

Performed without remarks:

Date: 9/1-24

Sign.: *S.T.*

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SKIPPER
 C.O. reg no: NO-965378847-MVA

INSPECTION & TEST PROTOCOL FOR SEA VALVE

Document No: Q12-TI-0108-02 2023

SKIPPER sea valve Serial No.:	24025
Class certificate no.:	

Class stamp and certificate no. shall be stamped on main element and bottom flange (welding part)

Class: DNV ABS BV LR RINA NK

Sea valve Type:

		<u>-SA</u>	<u>-SB</u>	<u>-LA</u>	<u>-LB</u>	<u>-F1</u>	<u>SLB</u>	<u>SJB</u>
SB-60		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		
DB-60		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		
SB-100		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
DB-100		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
ETN- 100mm							<input type="checkbox"/>	<input type="checkbox"/>
SB-200-Echo	<input type="checkbox"/>							

Assembly, Items Serial No. / Batch No. / Charge No.:

	<u>Heat no</u> <u>Body</u>	<u>Heat no</u> <u>Cap</u>	<u>Skipper Part</u> <u>No.</u>
Valve Element:	TC9A	TC9A	ZCC-01015
Intermediate Element:		2305	DB-2051
Bottom Flange:		567560	SB-2019
Intermediate flange (for DB valves)			

Visual Inspection:

Performed without remarks:

Pressure Test:

Working pressure 2 bar
 Tested for 5 minutes with 5 bar pressure,
 According to procedure no. 02-Q12_Pressure testing Gate_ball Valve

Performed without remarks:

Date: 9/1-24

Sign.: 

PICKING LIST

SKIPPER

SKI-NO: PWO/130622



Printed: 08.01.2024 - 10:56

Operation number Operation Manufacturing area Remaining quantity
PRODUCTION **2 stk**

Note
DB-60-SA-LR

Stockloc / Details	Assignment	Quantity	Product
For operation number 200			
1-L-08-02	SSA/123037-1	2 stk	DB-1030 562966 x 2 1122 ? Sea Valve 60 mm, Intermediate Flange, for DB-60-XA
1-L-08-02	3 stk		
1-PALL-03-B6	SSA/131822-1	2 stk	DB-1022 566504 x 2 2350 Bottom Flange for DB-60-XA
1-PALL-03-B6	8 stk		
For operation number 100			
1-PALL-06	SSA/131223-1	2 stk	ZCC-02001 Main element DN65 for XB-60-XA
1-PALL-06	17 stk		
For operation number 200			
1-PALL-06	SSA/131269-1	2 stk	DB-1031 Top Flange for XB-60-XA
1-PALL-06	14 stk		
1-PALL-06	SSA/131282-1	2 stk	DB-1021 2308 x 2 Intermediate Element 60 mm
1-PALL-06	38 stk		
LAGER 20-L20-1-	3 stk		Picking blocked
1-S-24	SSA/131168-1	8 stk	ZOA-01023 Nut M12 DIN934 A4
1-S-24	694 stk		
1-S-74	SSA/129962-1	2 stk	DB-2040 Washer Ø46x2,5 Ø32,5 for XB-60/100/200-XX
1-S-74	171 stk		
1-T-01	SSA/129637-1	8 stk	ZOA-01034 Screw M16x40 DIN933 A4-80
1-T-01	264 stk		
1-T-01	SSA/131610-1	4 stk	DB-2035 Gasket Ø47/32,5 X 20mm for XB-60/100/200-XX
1-T-01	64 stk		
1-T-02	SSA/127824-1	4 stk	ZOA-01065 Screw M12x40 mm DIN933 A4-80
1-T-02	145 stk		
1-T-02	SSA/130000-1	12 stk	ZOA-01066 Spring Washer M12,2 DIN 127B A4
1-T-02	1042 stk		
1-T-02	SSA/131169-1	8 stk	ZOA-01035 Spring washer M16 DIN127B A4
1-T-02	838 stk		
1-T-02	SSA/131814-1	2 stk	DB-2036 Nut M50 Brass for XB-60/100/200-XX
1-T-02	28 stk		
1-T-03	SSA/129656-1	8 stk	ZOA-01048 Washer M12 DIN125 A4
1-T-03	284 stk		
Varmerom	SSA/131679-1	4 stk	ZZA-01127 Metallised polyester label on roll
Varmerom	4940 stk		

Additional parts

Product	Stockloc	Quantity
GVA-LR Sea Valve approval from Lloyds Register		2 stk

Herb

Sino 24026 - CP2 F2
 24027 - CP2 F2

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C.O. reg no: NO-965378847-MVA

INSPECTION & TEST PROTOCOL FOR SEA VALVE

Document No: Q12-TI-0108-02 2023

SKIPPER sea valve Serial No.:	24026
Class certificate no.:	

Class stamp and certificate no. shall be stamped on main element and bottom flange (welding part)

Class: DNV ABS BV LR RINA NK

Sea valve Type:

		<u>-SA</u>	<u>-SB</u>	<u>-LA</u>	<u>-LB</u>	<u>-F1</u>	<u>SLB</u>	<u>SJB</u>
<u>SB-60</u>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		
<u>DB-60</u>		<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		
<u>SB-100</u>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
<u>DB-100</u>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
<u>ETN- 100mm</u>							<input type="checkbox"/>	<input type="checkbox"/>
<u>SB-200-Echo</u>	<input type="checkbox"/>							

Assembly, Items Serial No. / Batch No. / Charge No.:

	<u>Heat no</u> <u>Body</u>	<u>Heat no</u> <u>Cap</u>	<u>Skipper Part</u> <u>No.</u>
Valve Element:	CP2F2		ZCC-02001
Intermediate Element:		2308	DB-1021
Bottom Flange:		566504	DB-1022
Intermediate flange (for DB valves)		562966	DB-1030

Visual Inspection:

Performed without remarks:

Pressure Test:

Working pressure 2 bar

Tested for 5 minutes with 5 bar pressure,

According to procedure no. 02-Q12_Pressure testing Gate_ball Valve

Performed without remarks:

Date: 9/1-24

Sign.:

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SKIPPER
 C.O. reg no: NO-965378847-MVA

INSPECTION & TEST PROTOCOL FOR SEA VALVE

Document No: Q12-TI-0108-02 2023

SKIPPER sea valve Serial No.:	24027
Class certificate no.:	

Class stamp and certificate no. shall be stamped on main element and bottom flange (welding part)

Class: DNV ABS BV LR RINA NK

Sea valve Type:

		<u>-SA</u>	<u>-SB</u>	<u>-LA</u>	<u>-LB</u>	<u>-F1</u>	<u>SLB</u>	<u>SJB</u>
<u>SB-60</u>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		
<u>DB-60</u>		<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		
<u>SB-100</u>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
<u>DB-100</u>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
<u>ETN- 100mm</u>							<input type="checkbox"/>	<input type="checkbox"/>
<u>SB-200-Echo</u>	<input type="checkbox"/>							

Assembly, Items Serial No. / Batch No. / Charge No.:

	<u>Heat no Body</u>	<u>Heat no Cap</u>	<u>Skipper Part No.</u>
Valve Element:	CP2F2		ZCC-02001
Intermediate Element:		2308	DB-1021
Bottom Flange:		566504	DB-1022
Intermediate flange (for DB valves)		562966	DB-1030

Visual Inspection:


Performed without remarks:

Pressure Test:

Working pressure 2 bar
 Tested for 5 minutes with 5 bar pressure,
 According to procedure no. 02-Q12_Pressure testing Gate_ball Valve

Performed without remarks:

Date: 9/1-24

Sign.: 



SAMSVARSERKLÆRING

Leverandør / produsent:

Strømmen Dreieverksted AS

Sendt dato:

31-2024

SKIPPER bestillings nr:

106427

SKIPPER varenummer:

SB-2019

Revisjon:

04

Antall levert:

30

Stål produsentens Heat / Charge nr:

1. 567560

2.

3.

4.

5.

Batch nr (år-uke-løpenummer):

Eks på batch nr: **13441**

4923-0124

Hvis samme varenummer blir levert mer enn en gang i løpet av uken, skal løpenummer endres fra 1 til 2 o.s.v.

Produsenten/leverandøren erklærer herved at produktet er laget i henhold til SKIPPERs seneste godkjente tegning, og i samsvar med SKIPPERs bestilling.

(Batch nummer skal stemples i materialet)

Dette skjemaet skal følge med varene som blir levert til SKIPPER, og evt. skannes og sendes til SKIPPER sammen med materialsertifikat.

Produktet er målt, kontrollert og godkjent av:

Stempel / Sign:

Strømmen Dreieverksted AS

E-post: firmapost@dreie.no
www.dreie.no

A02/Z03

INSPECTION CERTIFICATE acc to
EN 10204 3.1

A06

SVERDRUP STEEL AS
STRANDSVINGEN 2
4032 STAVANGER
NORWAY

SVQ

Customer References A07 PO-06786 125-06911 SVERDRUP S	Alleima References A08 <table border="1" style="width: 100%;"> <tr> <th>Order No.</th> <th>Subs No.</th> <th>Dispatch note</th> </tr> <tr> <td>596340</td> <td>718654</td> <td>42934/53</td> </tr> <tr> <th>Suppl. No</th> <th>C.Code</th> <td></td> </tr> <tr> <td>284-71345</td> <td>87</td> <td></td> </tr> </table>	Order No.	Subs No.	Dispatch note	596340	718654	42934/53	Suppl. No	C.Code		284-71345	87	
Order No.	Subs No.	Dispatch note											
596340	718654	42934/53											
Suppl. No	C.Code												
284-71345	87												

Material description B01/B04 HOT WORKED BAR STEEL FORGED ANNEALED & STRAIGHTENED PEEL TURNED AND POLISHED Melt Source ALLEIMA AB SWEDEN Metallurgical process Origin c70 EAF+AOD+LRF Sweden	Steel/material Designations B02 Alleima SANMAC 316/SANMAC 316L AISI UNS 316/316L S31600/S31603 W.nr EN no 1.4401/1.4404 1.4401/1.4404
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Technical requirements B03 EN 10088-3:-2014, EN10272:-2016*, EN10060:2003, EN 10221:1996 EN10222-5:-2017*, PED 2014/68/EU, QQ-S-763 F, NACE MR0175/ISO 15156-3:-2015, NACE MR0103/ISO 17945-1:-2015, ASTM A-276-17, ASME SA-276-ED-21 SECT II PART A, ASTM A-479-21, ASME SA-479-ED-21 SECT II PART A, ASTM A-484-22, ASTM A-182-22A*, ASTM A-965-21A*, ASTM A-314-19*, NORSOK M-630:2020, NORSOK MDS S17 REV. 1 *For detailed information, please see the appendix

EXTENT OF DELIVERY B07-B13								
It	Product designation	Heat	Lot	Pieces	Kg			
01	MBR-SANMAC316L-225	567560	23551	1	1780.0			
			Total	1	1780.0			
Heat			Recycled material(%)					
567560 Continuous casting			98.3					
TEST RESULTS								
Reduction ratio (times)								
Lot								
23551		2.3						
Chemical composition (weight%) acc. to ASTM A-751								
Heat	C	Si	Mn	P	S	Cr	Ni	Mo
567560	0.007	0.24	1.71	0.033	0.026	16.78	10.07	2.02
	N							
567560	0.042							

Quality assurance - Erik Jansson/QA-manager Primary Products A05/Z02
MTC Service / Certificates



Tensile test at room temperature acc. to ASTM A370/ISO 6892-1

Longitudinal

Location half radius

Lot	Yield strength		Tensile strength	Elongation	
	Mpa	MPa	Mpa	%	%
23551	Rp0.2	Rp1.0	Rm	A	2"
	241	328	529	48	48
	Red.of Area				
	%				
	Z				
	67				

Transversal, 90° from each other.

Location half radius

Lot	Yield strength		Tensile strength	Elongation	
	MPa	MPa	MPa	%	%
23551	Rp0.2	Rp1.0	Rm	A	2"
	222	326	534	51	51
	234	324	534	50	50
	Red.of Area				
	%				
	Z				
	69				
	70				

Hardness test acc.to ASTM A-370/ISO 6506-1

Location half radius

Lot	Min	Max
23551	145	145
Lot	Min	Max
Lot	HRB	HRB
23551	78	78

Grain size acc to ASTM E-112.

Location half radius

Lot		
23551	3.0	3.0

Impact test, J, Transversal acc. to ASTM A-370

Location half radius

Lot	Single values			Avg.	Temperature
	Joule			Joule	°C
23551	148	148	140	145	20
	138	142	150	143	20

Following controls/tests have been satisfactorily performed:

- Intergranular corrosion test acc to ASTM A-262 PR.E and EN ISO 3651-2A
- Positive Material Identification (PMI)
- Ultrasonic testing (*)
- Visual inspection and dimensional control.

Heat Treatment:

Solution annealed and quenched.

Melt Source

Heat 567560 ALLEIMA AB

SWEDEN



HEAT TREATMENT:

Up to 35mm: Material soaking 1050°C, min. 20 minutes. Quenched in water. Water temp pre-quench max 38°C, after quench max 49°C.

>35-150mm: In process annealed according to ASTM A484 above the minimum hot rolling temperature of 1010°C and cooled in air.

>150-350mm: Material soaking 1065°C, min. 30 minutes. Quenched in water. Water temp pre-quench max 38°C, after quench max 49°C.

>350-375mm: Material soaking 1050°C, min. 60 minutes. Quenched in water. Water temp pre-quench max 38°C, after quench max 49°C.

>375mm: Material soaking 1050°C, min. 120 minutes. Quenched in water. Water temp pre-quench max 38°C, after quench max 49°C.

The raw material is free from radioactive contamination.

Material free from mercury contamination.

No welding or weld repair.

This is to certify that the contents of this certified material test report are correct and accurate and that all test results and operations are in compliance with the material specification.

Approved acc. AD 2000-Merkblatt W0 and certified acc. to Pressure Equipment Directive (2014/68/EU) by TÜV NORD; notified body, reg.no. 0045.

The material is manufactured according to a Quality system, approved and registered to ISO 9001:2015.

No unauthorized alterations. The contents of this Inspection Certificate may not be modified or revised in any way without the prior written approval of Alleima.

Unauthorized alterations to the Inspection Certificate, including introduction of false, fictitious or fraudulent statements or entries, may be punishable by fines, imprisonment, or both. This Inspection Certificate may be copied only in the manner and for the purposes specified in Section 6 of EN 10204:2004. Contravention of this notice will be prosecuted to the fullest extent of applicable law.

The certificate is produced with EDP and valid without signature.



APPENDIX

Lab accreditation

Our lab is accredited under SWEDAC Accreditation number 1636 for testing as per ISO/IEC 17025

Applicable only to specific dimensions

20mm - 250mm: EN 10088-5 EN (Only valid for CE marked products together with Alleima Declaration of Performance certificate).

20mm - 400mm: PED 2014/68/EU EN 10272 (Stainless steel bars for pressure purposes)

20mm - 375mm: AD-2000-W2/W10

20mm - 450mm: NORSOK M-630 - NORSOK MDS S17

180mm- 450mm: PED 2014/68/EU EN 10222-5 (Chemical composition only)

70mm - 450mm: AMS 5648 Rev. L, AMS 5653 Rev. H

Suitable for manufacturing of components in acc. with *ASTM A-182, (F316/F316L), ASTM A-965, ASTM A-314.

Test location

Mechanical, ferrite, corrosion testing:

Bar dim <=50mm - Longitudinal test pieces in center of the bar.

Bar dim > 50mm - 160 mm - Longitudinal test pieces, 1/4 T and minimum 100 mm from any second surface.

Bar dim > 160mm- 450 mm - Transversal test pieces, 1/4 T and minimum 100 mm from any second surface.

One set of test samples per heat treatment lot.

Maximum lot size 15 ton.

Furnace calibration every third month according to API 6A 21th Edition Annex M, Thermocouples of S-type (+/- 5°C tolerance) are used to monitor the Furnace temperature.

Ultrasonic test


Dim 29 - 74 mm: EN 10308 quality class 3

Dim 75 mm - : EN 10228-4, Tab 3 Scan coverage 1a 100%, Tab 5 Quality Class 3, ASTM A-388, API 6A PSL3/3G.

Alleima, formerly Sandvik Materials Technology. During a brand transition period, both Sandvik and Alleima marking on products may exist.



Certificate EN 10204-3.1

Klant/customer:		Certificaat number/certificat number:VT-230517001									
MESON AB											
ORDER NO: IK20439			INVOICE NO: IK20439			DATE: 2023-05-17					
Item	Q'ty	Description	Dn	Rating	Conn.			Material body&cap			
1	300	V2F-BODY	100	PN16	FLANGED NED			EN10213/1.4408			
1	300	V2F-CAP	100	PN16	FLANGED NED			EN10213/1.4408			
Item	Part	Charge Nr.	Q'ty	Pressure Test /Media water	Mechanische eigenschappen /mechanical properties			Kerbschlagarbeit ISO V Probe			
					Tensile strength (N/mm2)	Yieldpoint (N/mm2)	Elongation (%)	Energy Charpy Impact (J)			
					RM	Rp 1.0	A	1	2	3	Σ/3
					PSI	440-640	≥210	≥30%			
1	V2F-BODY	TD9A	102	348	569	256	42,6	162	165	174	167,0
1	V2F-BODY	TC9A	100	348	558	262	41,5	165	169	177	170,3
1	V2F-BODY	TE9A	98	348	562	265	41,8	170	172	175	172,3
1	V2F-CAP	TD9A	101	348	569	256	42,6	162	165	174	167,0
1	V2F-CAP	TC9A	102	348	558	262	41,5	165	169	177	170,3
1	V2F-CAP	TE9A	97	348	562	265	41,8	170	172	175	172,3
CHEMISCHE SAMENSTELLING/CHEMICAL COMPOSITION											
Charge Nr.	C %	Si %	S %	P %	Mn%	Ni %	Cr %	Mo %	Cu %		
	≤0.07	≤1.50	≤0.030	≤0.040	≤1.50	9.0-12.0	18.0-20.0	2.0-2.5	≤0.50		
TD9A	0,041	0,925	0,003	0,025	0,963	9,216	18,244	2,216	0,214		
TC9A	0,052	0,936	0,005	0,028	0,954	9,302	18,412	2,163	0,185		
TE9A	0,048	0,633	0,006	0,024	0,947	9,325	18,336	2,108	0,168		
We hereby certify that material described above has been successfully tested and complies with the terms of the order.						VALVE-TEK CO., LTD.					
						LEE/SALES					