



LESER GmbH & Co. KG D-20537 Hamburg, Wendenstr. 133-135
11/2019

Purchase Order No./Item

4500264063/10

Further

SV-Info:

LESER No.

LESER-Job-No./Item: 20431169/10

Art.-No.: 4594.2162

Tag-No.: PSV-215490

Option K7SMB1K4ZH03I63J54X00V62V71L44

Code: MA3H01N73

Spring 540.4104.0000
No.:

Set pressure:	90,00 barg	1.305,34 psig
CDTP:	90,00 barg	1.305,34 psig
Body material:	1.4404/316L	
Nominal size:	Inlet: NPT 3/4	Outlet: NPT 1
Pressure rating:	Inlet: PN 250	Outlet: PN 160

LESER-Serial-No.: 11621988

LESER-Job-No.: 20431169/10



TRANSMITTAL OF CERTIFICATES

LESER GmbH & Co. KG - Postfach 26 16 51 - 20506 Hamburg - Germany

LESER - The Safety Valve
(Tianjin) Ltd.
Plant No.5 of Nordic Green
Tianjin High-Tech Industrial Park
1 Xinxing Road
Wuqing Development Area, Industrial Park
301700 TIANJIN-WUQING
China

Customers Order-No.:	4500264063
LESER-Job-Nr.:	20431169 / 10
LESER-Customers-No.:	188392
LESER-Contact:	Valeska Bernert
Fon:	04025165 135
Fax:	04025165 500
eMail:	bernert.v@leser.com

1 LESER Product designation

Compact Performance Safety Relief Valve, Type 459,
closed bonnet, gastight cap H2,
for steam, gas and liquid service

Art.-No.	Cold differential test pressure		Option Code: K7SMB1K4ZH03I63J54X00V62V71L44MA3H01N73			
4594.2162	90,00 barg	1305,34 psig	Further SV-Info: TSF 700 301-2023			
Tag-No.:	LESER-Job-No.	Pos.-No	Serial-No.:	Inlet body material	Nominal size: Inlet Outlet	Pressure rating: Inlet Outlet
PSV-215490	20431169	10	11621988	1.4401/ 1.4404/ 316/ 316L	NPT 3/4 NPT 1	PN 250 PN 160

2 Inspection certificates

Name	Description	Standard	Edition
LESER CGA	Inspection Certificate 3.1	DIN EN 10204	2004

3 Material inspection certificates according to DIN EN 10204

The allocation of the inspection certificates to each part is given by LESER-Code as well as by heat no/batch stated below:

Pos	Description	Material	Manufacturer	Manufacturer Batch	LESER-Batch
1	Inlet Body	1.4404/316L	Deutsche Edelstahlwerke	293988	038K1

4 Additional certificates and documents

special documentation acc. CSBQTS

If the consignee of the order is not based in China, the purchaser is responsible for sending one copy of the "Data Notice of Safety Component Products to be Exported into China" - forms of each safety valve to SELO (Special Equipment Licensing Office). Otherwise LESER GmbH & Co. KG has already sent those forms to SELO.

SELO is reachable via following postal address or e-mail:

SELO
Rooms B203 and B215, Building 2, X:Yuan, HePingJie,
Chao Yang District, Beijing 100013, P.R.C
Postcode: 100013, P.R.C
e-mail: selo@CSEI.org.cn

LESER CERTIFICATE FOR GLOBAL APPLICATION

Inspection certificate 3.1 according to DIN EN 10204

Declaration of conformity according to Pressure Equipment Directive 2014/68/EU

LESER GmbH & Co. KG · Postfach 26 16 51 · 20506 Hamburg · Germany

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LESER-Contact:	Valeska Bernert
Fon:	04025165 135
Fax:	04025165 500
eMail:	bernert.v@leser.com

This LESER CGA confirms that the undermentioned LESER safety valves are manufactured and certified according to the rules world-wide. LESER makes the world-wide employment possible of the safety valves by the reference on these regulations.

1 Test object Compact Performance Safety Relief Valve, Type 459,
closed bonnet, gastight cap H2,
for steam, gas and liquid service

Art.-No.	Cold differential test pressure		Option Code: K7SMB1K4ZH03I63J54X00V62V71L44MA3H01N73			
4594.2162	90,00 barg	1.305,34 psig	Further SV-Info: TSF 700 301-2023			
Tag-No.:	LESER-Job-No.	Pos.No	Serial-No.:	Inlet body material	Nominal size: Inlet Outlet	Pressure rating: Inlet Outlet
PSV-215490	20431169	10	11621988	1.4401/ 1.4404/ 316/ 316L	NPT 3/4 NPT 1	PN 250 PN 160
Kind of certification	VdTUEV-Type test approval		EC Type-examination		ASME certification	
Rules	AD 2000-Merkblatt A2:		DIN EN ISO 4126-1:		ASME-Code Sec.VIII, Div.1:	
Certification No./ valid until	D/G:	TÜV-SV 17-909 10.22	G/S:	072021409Z0022/15/D/0135 06.20	G/S:	M37112 02.24
	F:	TÜV-SV 17-909 10.22	L:	072021409Z0022/15/D/0135 06.20	L:	M37101 02.24
Flow diameter	d ₀	9 [mm]	-	9 [mm]	-	0,354 [in.]
Flow area	A	63,6 [mm ²]	A	63,6 [mm ²]	A	0,098 [sq.in.]
Certified derated coefficient of discharge	a _w	D/G: 0,83 F: 0,61	K _{dr}	G/S: 0,83 L: 0,61	K	G/S: 0,811 L: 0,566
Certified capacity						
Lift	H	2,1 [mm]	h	2,1 [mm]	l	0,08 [in.]
Overpressure	c	D/G: 5 [%] or 0,1bar for p<1bar F: 10 [%] or 0,1bar for p<1bar	c	G/S: 5 [%] or 0,1bar for p<1bar L: 10 [%] or 0,1bar for p<1bar	-	G/S: 10[%] or 3,0psig for p<30,0 psig L: 10[%] or 3,0psig for p<30,0 psig
Cold differential test pressure	p	90,00 [bar g]	p _e	90,00 [bar g]	cdtp	1.305,34 [psig]
Temperature	T	40,00 [°C]	T	40,00 [°C]	T	104 [°F]
Backpressure	p _a	0,00 [bar g]	-	0,00 [bar g]	-	0,00 [psig]
Set pressure	p	90,00 [bar g]	p	90,00 [bar g]	p	1.305,34 [psig]

2 Conformity assessment procedure and LESER Management Systems

Conformity assessment procedure: Category IV according to PED 2014/68/EU Modul B D/D1
Notified Body: TÜV NORD Systems GmbH & Co. KG, Große Bahnstraße 31, D-22525 Hamburg
Certification No.: 0045

LESER Management Systems: Quality Management System DIN EN ISO 9001
Environmental Management System DIN EN ISO 14001
Production Quality Assurance PED 2014/68/EU Modul D/D1
ASME Certificate of Authorization ASME Code Sec.VIII, Div.1

3 Regulations

3.1 LESER certifies with this CGA that design, marking, production and approval of this pressure equipment corresponds to the requirements of the following harmonized standards and other regulations.

Harmonized standards:	Other regulations:			
DIN EN ISO 4126-1	PED 2014/68/EU	VdTUV SV 100	ASME-Code Sec. II	API RP 521
DIN EN ISO 4126-7	AD 2000-Merkblatt A2		ASME-Code Sec. VIII Div.1	API Std. 526
DIN EN 12266-1	AD 2000-Merkblatt A4		ASME PTC 25	API Std. 527
DIN EN 12266-2	AD2000-Merkblatt HP0		API RP 520	API RP 576

3.2 Tests	Directive	DIN EN ISO	DIN EN 12266		ASME CODE	API			AD2000 Merkblatt			LESER Standard
	2014/68/EU Annex 1	4126-1	Teil 1	Teil 2	Sec.VIII Div.1	526	527	576	A2	A4	HPO	LGS
Cdtp test	3.2.3	6.5			UG 136(d)(4)	4.2	2/3/4	6.2.14	11.1 11.4			LGS 0202-E
Seat tightness test		6.6	4.4 (P12)		UG 136(d)(5)	4.3	2/3/4	6.2.17				LGS 0201-E
Back seat tightness test				4. (P21)	UG 136(d)(3)							LGS 0201-E
Test of operability		7		4. (F20)					11.3			LGS 0217-E
Shell tightness test			4.4 (P11)									LGS 0201-E
Hydrostatic testing	3.2.2 7.4	6.3.1 6.3.2	4.4 (P10)		UG 136(d)(2)				6.1.(4)			LGS 0209-E
Nondestructive testing					UG 136(f)				6.1.(5)			LGS 0203-E - 0206-E
Material identification									6.1.(6)			LGS 0207-E
Marking					UG 77				8	7.1	4	LGS 0218-E
Check for dimensional accuracy									6.1.(3)			LGS 0216-E

4 Material suitability and marking

4.1. **LESER** certifies that the suitability of the used materials corresponds to the regulations quoted in chapter 3.1.

4.2. The marking of the materials as well as their transmission took place as follows:

Pos	Description	Material	Manufacturer	Manufacturer Batch	LESER-Batch
1	Inlet Body	1.4404/316L	Deutsche Edelstahlwerke	293988	038K1

5 Tests

The tests specified in the following one were realized on basis of the stated LESER standards without any objection:

5.1. Shell test

Shell tightness test

Hydrostatic testing

Nondestructive testing

Material identification check for alloyed materials

The realization of the test took place through:

LESER GmbH & Co.KG

5.2. Valve setting and testing

Seat tightness

Back seat tightness

Operability

Cold differential test pressure

Setting at

with

☒ air

☐ water

☐ saturated steam

at

☒ ambient temperature

☐ saturated steam temperature

90,00 ☒ barg ☐ psig

☐ saturated steam

☐ _____ ☐ °C ☐ °F

The safety valve is protected by a seal marked with:



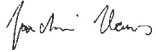
Setting and testing were done by:

LESER GmbH & Co. KG

6 CERTIFICATE OF SHOP COMPLIANCE

By the signature of the Certified Individual (CI) noted below, we certify that the statements made in this report are correct and that all details for design, material, construction, and workmanship of the pressure relief devices are conform with the requirements of Section VIII, Division 1 of the ASME Boiler and Pressure Vessel Code.

UV Certificate of Authorization No.: 27,806



Joachim Klaus
LESER GmbH & Co. KG

Date: 12.11.2019



Anatoli Vilenski
Inspection Representative Works Hohenwestedt
Certified Individual (CI)



Serial # 11621988 / Batch # 038K1

Made in Germany				DEUTSCHE EDELSTAHLWERKE		Code 13895	
ABNAHMEPRÜFZEUGNIS INSPECTION CERTIFICATE ACCORDING TO EN 10204 3.1 CERTIFICAT DE RECEPTION				Zeugnissnr. 311018 / Seite 1 / 3			
Hersteller: Deutsche Edelstahlwerke Manufactureur: Specialty Steel GmbH & Co. KG Producteur: Postf. 101220 / D-57012 SIEGEN				zertifiziert nach: DIN EN ISO 9001 IATF 16949 ISO 14001 DGR 2014/68/EU PED 2014/68/EU			
Uns. Auftr.-Nr. 1794507 Order-No. Notre Com. No.				1.4404 / X 2 CRNIMO 17-12-2 Acidur 4404 TYPE 316L NIRO-CUT 4404 / 4401 ACIDUR 4401 TYPE 316			
Besteller: IMS Deutschland GmbH Customer: Client Bestell. Nr. 1049511932 Order-No. Commande No.				Erzeugnisform: Blankstahl, bright bars Product: Abgeschreckt, quenched Produit: warmgewalzt, hot rolled geschaeft, peeled geschliffen, ground			
IMS DEUTSCHLAND GMBH NL HAMBURG BREDEWOSTRAßE 19 DE-22113-HAMBURG				Anforderungen: DIN EN 10088-3 12/14 Requirements: AD 2000-MERKBL.W 2 02/08 Prescriptions: MR0175/ISO 15156-3 10/09 de contrôle: DIN EN 10272 10/16 ASTM A 182/A 182M 17 ASME SA-182/SA-182M 07/17 ASTM A 479/A479M 17 ASME SA-479/SA-479M 07/17 weitere Anforderungen vorhanden, siehe Zusatztexte			
Schmelzen-Nr. 293988 Cast No./Coulée No.				Gewicht: KG Weight / Masse: WA Stempel Abnahmebeauftragter Inspector's stamp			
Schmelzen-Nr. 293988 Cast No./Coulée No.				Abmessung: mm Dimensions/Dimensions: 40,00 +0,000/-0,062 RD			
Proben-Nr. 971417 Test N./Eprouv.N.				Stückzahl: 001 Quantity / Nombre			
% C 0,017 % SI 0,52 % MN 1,40 % P 0,031 % S 0,019 % CR 16,54 % MO 2,010 % NI 11,10 % N 0,0310				Kerbschlagversuch: Impact test / Essai de résilience			
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Proben-Nr. 971417 Test No. / Eprouv.N.				°C 23 JOULE 338 JOULE 320 JOULE 365 JOULE 377			
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Proben-Nr. 971417 Test No. / Eprouv.N.				°C 23 JOULE 338 JOULE 320 JOULE 365 JOULE			



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Made in Germany				Zeugnisnr. 311018 / Seite Page / Page 2 / 3	
ABNAHMEPRÜFZEUGNIS INSPECTION CERTIFICATE ACCORDING TO CERTIFICAT DE RECEPTION		DEUTSCHE EDELSTAHLWERKE			
Besteller Customer Client		IMS Deutschland GmbH		Bestell Nr. Order-No. Commande No.	
Hersteller Manufacturer Producteur		Deutsche Edelstahlwerke Specialty Steel GmbH & Co. KG Postf. 101220 / D-57012 SIEGEN		Uns. Auftr.-Nr. Order-No. Notre Com. No.	
VOM 01.03.2018				Proben-Nr. Test N. Epreuve N.	
EN 10088-5		07/09		971417	
MAT.-NR: 2021257					
Härte HRC ≤ 22					
Hardness HRC ≤ 22					
Material ist frei von Quecksilber					
MATERIAL IS FREE FROM MERCURY CONTAMINATION					
100% US-Prüfung nach EN 10308, Tab 1, Typ 1A,					
vollständige Prüfung, Tab.3, QK.3: ohne Beanstandung.					
100% Rissgeprüft EN 10277, Kl.3: ohne Beanstandung					
100% US-Test acc. to EN 10308, Tab.1, Type 1A,					
complete test volume, Tab.3, QC3: without Indication.					
100% Surface crack test acc. to EN 10277, Cl.3:					
without indication					
IK TEST NACH ASTM A 262 VERF. E : OHNE BEANSTANDUNG					
IG CORROSION TEST ACC. TO ASTM A 262 PRACT. E : SATISFACTORY,,					
DER WERKSTOFF IST INTERKRIST. BESTÄND. NACH: DIN EN ISO 3651-2					
MAT. IS RESIST. TO INTERCR. CORR. PURS. TO: DIN EN ISO 3651-2					
MASS UND OBERFLÄCHENKONTROLLE: KEINE BEANSTANDUNG					
DIMENSIONS AND SURFACE INSPECTION: SATISFACTORY					
PRUEF. AUF WERKSTOFFIDENTITÄT: 100% SPEKTROMETR.OB					
TEST TO VERIFY QUAL.: 100% SPECTROM. WITHOUT INDIC.					
DAS MATERIAL IST FREI VON RADIOAKTIVITÄT					
(<0,1Bq/g bezogen auf Co-60).					
Herstelland: Deutschland					
THE PRODUCT IS FREE FROM RADIOACTIVITY.					
(<0,1Bq/g based on Co-60).					
Location of production: Germany					
Datum: 27.05.2019					
Oertel (Abnahmebeauftragter/ Inspector)					
Tel: 0271/808-2364 Fax: 0271/808-2521 Email: christoph.oertel@dew-stahl.com					
Das Zeugnis wurde maschinell erstellt und ist gemäß EN 10204 ohne Unterschrift rechtsverbindlich. This certificate was generated by a data system, acc. to EN 10204, it is valid without signature. Ce certificat a été établi sur système informatique et est valable selon EN 10204 sans signature.					



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Serial # 11621988 / Batch # 038K1

Made in Germany		DEUTSCHE EDELSTAHLWERKE		Zeugnisnr. 311018 / Seite Page / Page 3 / 3	
ABNAHMEPRÜFZEUGNIS INSPECTION CERTIFICATE ACCORDING TO CERTIFICAT DE RECEPTION					
Besteller Customer Client		IMS Deutschland GmbH		Bestell Nr. Order-No. Commande No.	
				1049511932	
Hersteller Manufacteur Producteur		Deutsche Edelstahlwerke Specialty Steel GmbH & Co. KG Postf. 101220 / D-57012 SIEGEN		Uns. Auftr.-Nr. Order-No. Notre Com. No.	
				1794507/001	
CE		Deutsche Edelstahlwerke Specialty Steel GmbH & Co. KG Auestrasse 4 Witten 1.4404 2H - EN 10088-5 Blankstahl aus korrosionsbest. Stahl Stahlbauwerken, Metall-/Beton- Verbundbauwerken, Hochbauten und Ingenieurbauwerken			
19					
0432-CPR-00150-01/02		Leistungserklärung (LE) 1.4404 2H			
Die Leistungserklärung (LE) ist zu finden unter:		www.dew-stahl.com/1.4404.2H			
Das Zeugnis wurde maschinell erstellt und ist gemäß EN 10204 ohne Unterschrift rechtsverbindlich. This certificate was generated by a data system, acc. to EN 10204, it is valid without signature. Ce certificat a été établi sur système informatique et est valable selon EN 10204 sans signature.		Tel: 0271/808-2364 Fax: 0271/808-2521 Email: christoph.oertel@dew-stahl.com		Datum: 27.05.2019 Oertel (Abnahmebeauftragter/ Inspector)	



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Appendix 4

Data Notice of Safety Component Products to be Exported into China

Name of Manufacturer	LESER GmbH & Co. KG			Country/Area	Germany (Europe)	
Manufacture License Number	TSF 700 301-2023			Manufacture Licensing Scope or Level		
Buyer	188392 LESER - The Safety Valve					
End User	Tianjin ChongJu Science and Technology Co.,Ltd					
Installation Address	31-2 Chaohui Li, Yangguang Town 300000 Tianjin CN					
Delivery Date	11 / 2019					
Order Number or Product Identification	20431169					
Product Name	Safety Valve			Quantity	1	
Product	Product Parameter					
Safety Valve	Product Serial Number	Type and Specifications	Set Pressure (MPa)	Maximum Working Temperature (°C)	Coefficient of Discharge or Flow Capacity	Quantity
	11621988	4594.2162	9,00		S/G: 0,83 L: 0,61	1
Rupture Discs	Product Serial Number	Type and Specifications	Marked Burst Pressure (MPa)	Applicable Medium and Temperature (°C)	Material	Quantity
Gas Cylinder Valve	Product Serial Number	Type	Nominal Size	Nominal Working Pressure (Mpa)	Maximum Working Temperature (°C)	Quantity
Design and Fabrication Standard	PED 2014/68/EU Modul B D/D1; ASME sec. VIII; AQSIQ A1					
Has AQSIQ ever approved the adopted code or standard to the licence holder?				Yes [X] No []		
Estimate Design Completion Date						
Estimate Fabrication Time						
Title of the Reporter	Head of Production		Name of the Reporter	Holger Breiholz		
Telephone			Fax			
E-mail	certificate@leser.com					
Address	LESER GmbH & Co.KG, Itzehoer Str. 63-65, D-24594 Hohenwestedt					

Signature:

Date:

2019-11-07
