

ALBERTA BOILERS SAFETY ASSOCIATION  
9410 20 AVENUE NW  
EDMONTON AB T6N 0A4

**Date:** May 28, 2020  
**Account #:** 34986  
**Journal #:** 75866

**Attn:** CYNTHIA FORMANIUK

**Re:** Application for Design Registration

The design, as detailed in your, 19AR-03459, for a Fitting is accepted for registration as follows:

**Registered To:** WIKA ALEXANDER WIEGAND      **CRN:** 0F02026.21  
GMBH & CO KG

**Drawing #:** 19AR-03459

**Drawing Revision:** 0

**Conditions Of Registration:**

Registration of Pressure Gauge Components.

This design was registered based on a technical review performed by the province of initial registration in accordance with the Association of Chief Inspectors policy on reciprocal recognition of design review.

**Reviewer's Notes:**

As required by CSA B51 4.2.1, this registration expires on 20-Mar-2030. This CRN is valid until the expiry date as long as the Manufacturer maintains a valid quality control program verified by an acceptable third-party agency until that date. Should the certification of the quality control program lapse before the expiry date, this registration shall become void. Any additional conditions of registration stated in ABSA CRN# 0H02026.2 registration shall apply to BC registration.

Contact me if you have any questions. The invoice for registration will be forwarded under separate cover.

Emilia Tam

emilia.tam@technicalsaftybc.ca  
Design Administration

**cc:**



the pressure equipment safety authority

9410 - 20 Ave N.W.  
Edmonton, Alberta, Canada T6N 0A4  
Tel: (780) 437-9100 / Fax: (780) 437-7787

March 20, 2020

**Attention:** Manual Medina  
WIKA INSTRUMENTS LTD  
3103 PARSONS ROAD  
EDMONTON, AB T6N 1C8

The design submission, tracking number 2019-07740, originally received on November 15, 2019 was surveyed and accepted for registration as follows:

**CRN :** 0F02026.2

**Accepted on:** March 20, 2020

**Reg Type:** RENEWAL

**Expiry Date:** March 20, 2030

**Drawing No. :** INSTRUMENT LIST 19AR-03459 Rev 0

**Fitting type:** PRESSURE GAUGE COMPONENTS

Design registered in the name of : WIKA ALEXANDER WIEGAND SE & CO KG

**The registration is conditional on your compliance with the following notes:**

- The scope of registration is the renewal Pressure and Temperature Gauge Components listed on instrument list 19AR-03459, previously registered per technical document 17AR-02747.
- The equivalent DIN/EN-Materials have to be in full compliance with ASME/ASTM material, regarding: chemistry, physical and mechanical properties, method and process of manufacture, and heat treatment.
- For the devices with the standard flange connection the MAWP shall be per ASME B16.5.

As indicated on AB-41 Statutory Declaration form and submitted documentation, the code of construction are ASME B31.3 and other engineering analysis.

- This registration is valid only for fittings fabricated at the location(s) covered by the QC certificate attached to the accepted AB-41 Statutory Declaration form.
- This registration is valid only until the indicated expiry date and only if the Manufacturer maintains a valid quality management system approved by an acceptable third-party agency until that date.
- Should the approval of the quality management system lapse before the expiry date indicated above, this registration shall become void.

An invoice covering survey and registration fees will be forwarded from our Revenue Accounts.

If you have any question don't hesitate to contact me by phone at (780) 433-0281 ext 3382 or fax (780) 437-7787 or e-mail [Stojanovic@absa.ca](mailto:Stojanovic@absa.ca).

Sincerely,

STOJANOVIC, STEVAN, P. Eng.  
DOP Cert. No. D00008849

001970 / 2019

**STATUTORY DECLARATION  
Registration of Fittings**

Single or Multiple Fitting Designs within one Fitting Category

In this space, show facsimile of manufacturer's logo or trademark as it will appear on the fitting.

I, Franz-Josef Vogel, Executive Vice President  
(name of applicant) Process Instrumentation (city)  
of WIKA Alexander Wiegand SE & Co. KG  
(name of manufacturer)



located at Alexander-Wiegand-Strasse, 63911 Klingenberg, Germany  
(plant address)

do solemnly declare that the fittings listed hereunder, which are subject to the Safety Codes Act (select only one)

comply with the requirements of ASME B40.100/40.200 which specifies the dimensions, (title of recognized North American Standard) materials of construction, pressure/temperature ratings and identification marking of the fittings, or

are not covered by the provisions of a recognized North American standard and are therefore manufactured to comply with \_\_\_\_\_ as supported by the (title of code of construction or other applicable document) attached data which identifies the dimensions, materials of construction, pressure/temperature ratings and the basis for such ratings, and the identification marking of the fittings.

I further declare that the manufacture of these fittings is controlled by a quality control program which has been verified as described in the below Table as being suitable for the manufacturing of these fittings to the stated standard, regulation, code, guideline or other applicable document. The fittings covered by the declaration for which I seek registration are as provided in the Supplementary Sheet(s) attached.

**Quality Program Verification and Manufacturing Sites**

OF 02026.2

A copy of the Quality Certificate from each manufacturing site must be included

Item #	Product Description, Model or Series	Quality Program	Scope of Certification	Expiry Date	Verifying Organization	Location(s) Plant Name and address
1.	Pressure product catalog	ISO 9001	Per attached copies	Per attached copies	Per attached copies	Per attached copies & document 19AR-03459
2.						

In support of this application, the following information, calculations and/or test data are attached:

Technical Description document 19AR-03459, Product line catalogs and drawings, technical supporting documents

[Signature]  
(Signature of the Declarer)

06th November, 2019  
(Date)

DECLARED before me at Klingenberg in the State of Bavaria, Germany  
(state)  
this 06th day of November, 2019  
(Month) (Year)

RASSELBECK, JENS  
(print)  
Commissioner of Oaths or Notary Public  
[Signature]  
(sign)  
Lifetime commission  
Expiry date (mm/dd/yy)

Commissioner of Oaths / Notary Public in and for: Klingenberg a.Main, Bavaria, Germany  
(province, territory, or state)

**For ABSA Office Use Only:**

NOTES:

<p>To the best of my knowledge and belief, the application meets the requirements of the Safety Codes Act and CSA Standard B51, Part 1, Clause 4.2, and is accepted for registration in Category _____</p>	
CRN:	<u>0F 020 26 . 2</u>
Registered Date:	<u>MAR 20 2020</u>
Expiry Date:	<u>March 20, 2030</u>
Signature:	<u>STEVAN STOJANOVIC</u> (Signature of the Administrator/SCO)
<p>The information you provide is necessary only for the administration of the programs as required by the Alberta Safety Codes Act and Regulations in the Pressure Equipment Discipline</p>	

The Following Table Correlates Swagelok Gauge and Transducer Model Numbers to the WIKA Model Numbers Listed in the WIKA CRN Approval Document

Swagelok Model Number	WIKA Model Number	Description
PGI-63L	63X.50 2.5"	2.5" Gauge
PGI-100L	63X.50 4"	4" Gauge
PGI-63B	23X.50 2.5"	2.5" Gauge
PGI-100B	23x.50 4"	4" Gauge
PGI-160B	23x.50 6"	6" Gauge
PGI-63C	23X.53 2.5"	2.5" Gauge
PGI-100C	23X.53 4"	4" Gauge
PGI-115P	2XX.34 4.5"	4.5" Gauge
PGI-160P	2XX.34 6"	6" Gauge
PGI-63S	23X.30 2.5"	2.5" Gauge
PGI-100S	23X.30 4"	4" Gauge
PGI-40M	131.11 1.5"	1.5" Gauge
PGI-50M	131.11 2"	2" Gauge
PBG-63	23X.55 2.5"	2.5" Gauge
PGC-50	130.15 2"	2" Gauge
PGU-40	230.25 1.5"	1.5" Gauge
PGU-50	230.25 2"	2" Gauge
PTI-S	S-10, S-11	Transducer - Standard model
PTI-E	E-10, E-11	Transducer - Explosion proof
PTI-T	IS-20	Transducer - Intrinsically safe
PTU-S	WU-10	Transducer single end
PTU-M	WU-16	Transducer modular
PTU-F	WU-15	Transducer flow through
PSD-100	M932.3A 4"	4" Diaphragm seal gauge - Dry
PSF-100	M933.3A 4"	4" Diaphragm seal gauge - Filled



Stamp of certification body	Stamp of company
-----------------------------	------------------

**WIKAI Alexander Wiegand SE & Co. KG**

## **Technical description**

**and**

## **Documentation CRN approval 0F02026.2**

**Issue / revision no. 4 of CRN approval 0F02026.2**

**0F02026.2**

**Author:** WIKAI Alexander Wiegand SE & Co. KG  
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Harald Gollas  
Corporate Approvals

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<http://www.wika.de>

**Internal reference:** 19AR-03459

Drawing No.: 14369595.0D  
 Title: CA-DESC CRN approval 0F02026.2  
 Written by: Harald Gollas  
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**1. General**

**1.1 Revision history of certification**

Issue / Revision	Date	Changes / references
01	2011-03-11	Internal request 09AR-00072 Initial Release, models as stated in the CofC
02	2017-06-26	Internal request 14AR-01568 <ul style="list-style-type: none"> <li>• Addition of new model designations, refer to the relevant tables</li> <li>• Update of drawings</li> <li>• Addition of manufacturing locations</li> </ul>
03	2019-02-08	Internal request 17AR-02747 <ul style="list-style-type: none"> <li>• Addition of new model designations, series CPGXXXX</li> </ul>

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### 1.2 Scope of project

This document include the scope currently registered per technical document 17AR-02747 as well as the following additions:

- Addition of new models:  
**Electronic Pressure Devices**  
 IPT-2X, PSD-4-ECO, A-1200, UPT2-x, CPH7650, GDT-20, GDS, GDHT20, GD10XX and GDI-100-D, on the Piezo Sensor category.  
 IPT-2X, PSD-4-ECO, A-1200, MH-4, UPT2-x, CPH7650, on the Thinfilm Sensor category.  
 UPT2-x, IPT-2X, on the Clamped Thinfilm Sensor category.  
 CPT-2X, on the Ceramic Sensor category.

#### Mechanical and Mechatronic Pressure

331.11, PG23HP-P, PG23HP-S, PG28, GDM and GDI, on the Bourdon Tube Gauges category.  
 56x.5x, 56x.3x, Switch Gauges series, PGS Series, 4xx.x6 + 8xx 5xx.xx + 8xx, on the Diaphragm gauges/Capsule gauges category.  
 DPT-X, on the Differential Pressure Gauges category.

#### Diaphragm seals

FWG models became FWGO and FWGM.  
 FWA models became FWOT and FWOS.  
 FEW models were corrected to FWE.  
 CHL, CHK, PWM, FDE as alternative models for 990.22, 990.SD, 990.36, 990.30 respectfully.  
 PWK, TWMS added.

#### Additional models with pressurized wetted parts

FSD-4; LF-1 added.

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- Addition of available pressure test documentation in paragraph 3.2 per test reports DGR0043/15; DGR0045/17; DGR0046/17; DGR0047/17; DGR0048/18; DGR0049/19; DGR0050/19; DGR0051/19.
- Revision of the manufacturing facilities as listed on paragraph 4.1.

### 1.3 General description

The purpose of this document is to list products and supporting documentation for the CRN approval of pressure and temperature instrumentation made and / or sold under the name of WIKA Alexander Wiegand SE & Co. KG (in Canada WIKA Instruments Canada Ltd).

### 1.4 Electronic pressure – data sheets are in separate binders

Table 1: Overview electronic pressure devices included in CRN approval

Piezo Sensor	Thinfilm Sensor	Thinfilm Sensor (UHP)	Clamped Thinfilm Sensor	Ceramic Sensor
A-1x	A-1x	NWU-1x	IS-20-H	AC-1
A-1200	A-1200	WU-1x	HP-x	C-2
AUT-1	BP-1	WU-2x	IPT-2x	CPT-2x
C-1x	C-1x	WUC-1x	IS-3	DG-1x
CPG500	CPG500	WUD-2x	IUT-1x	MCTx-x
CPG1500	CPG1500	WUE-1x	UPT-2x	OC-1
CPH7000	CPT6000		UT-1x	PSD-1x
CPH7650	CPT6200			R-2

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CPT6000	CPT6300	xCT-1
CPT6200	CPT6400	
CPT6300	CPH7000	
CPT6400	CPH7650	
CPT7000	D-1x	
D-1x	D-1x-x	
D-1x-x	D-2x-x	
D-2x-x	DG-1x	
E-1x	E-1x	
E-2x	E-2x	
ECO-1	ECO-1	
F-1x	F-1x	
F-2x	F-2x	
GD10XX	GD-20	
GD-20	IPT-2x	
GDHT-20	IS-1x	
GDI-100-D	IS-2x	
GDS	IS-3	
GDT-20	IS-4	
IL-1x	M-1x	
IPT-2x	MG-1	
IS-1x	MH-x-xx	
IS-2x	MH-4	
IS-3	MHC-1	
IS-4	MHS	
LF-1	MHS-1	
LH-1x	MTF-x	
LS-1x	MY-17	
LW-1	N-1x	
MPR-x	O-10	
N-1x	OT-x	
O-10	P-1x	
P-1x	P-3x	
P-3x	PS-2x	
PS-2x	PS-3	
PS-3	PSA-2x	
PSA-2x	PSA-3x	
PSA-31	PSD-3x	
PSD-3x	PSD-4-xxx	
PSD-4	PSD-4-ECO	
PSD-4-ECO	UPT-2x	
R-x	R-x	
S-1x	S-1x	
S-20	S-20	
S-21	S-21	
SA-1x	SH-1	
SL-1	TI-1	

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Technical Document I9AR.03459 (20191114)

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Kommanditgesellschaft: Sitz Klingenberg -  
Amtsgericht Aschaffenburg HRA 1819

Komplementärin:  
WIKAI International SE - Sitz Klingenberg -  
Amtsgericht Aschaffenburg HRB 10505  
Vorstand: Alexander Wiegand  
Vorsitzender des Aufsichtsrats: Dr. Max Egli

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TI-1	TIS-1x
TIS-2x	TIS-2x
TPR-x	TTF-1
UPT-2x	XCM-1
XCM-1	891.xx
891.xx	

x - Any letter or number

All model designations maybe followed by numbers or letter, maybe separated by "-".

### 1.5 Mechanical and Mechatronic Pressure – data sheets are in separate binders

**Table 2: Overview mechanical and mechatronic pressure devices included in CRN approval**

Bourdon Tube Gauges	Diaphragm Gauges / Capsule Gauges	Differential Pressure Gauges
111.1x	4xx.12	700.0x
111.2x	432.25	711.11
113.13	432.55	712.25 DP
113.53	43x.x0, 45x.x0	712.25 DX
130.15	43x.x6, 45x.x6	716.05
1x1.15	53x.5x, 53x.3x, 56x.5x, 56x.3x	7xx.12
13x.11	PG43SA-C	7xx.14
2x1.11	PG43SA-S	732.2x
21x.20	PG43SA-D	73x.x1
212.25	APGT / PGT series	73x.18
21x.34	<b>IntelliGAUGE</b> series	733.02
21x.40	Switch Gauges Series	7x2.15
21x.5x	PGS Series	891.34.1998
2x4.11	4xx.x6 + 8xx	DPGT series
222.3x	5xx.xx + 8xx	<b>IntelliGAUGE</b> series
230.15		DPG40
232.25		DPS40
23x.3x		DPGS40
23x.5x		DPGT40
26x.x0		DPGS40TA
26x.3x		DPGT43
3xx.11		DPGS43
312.20		DPGT43HP
332.11		DPGS43HP
33x.30		DPT-X
332.34		
33x.50		
332.54		
34x.11		
516.12, 516.11		
516.41		
PG23LT		
PG23CP		
PGT series		

0F02026.2

Technical Document 15AR-03459 (20191114)

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Amtsgericht Aschaffenburg HRA 1819

Komplementänn:  
WIKAI International SE - Sitz Klingenberg -  
Amtsgericht Aschaffenburg HRB 10505  
Vorstand: Alexander Wiegand  
Vorsitzender des Aufsichtsrats: Dr. Max Egli

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PGS series
<b>intelliGAUGE</b> series
<b>switchGAUGE</b> series
PG23HP-P
PG23HP-S
PG28
GDM
GDI
<b>All gauges model 6xx.xx, A2G-xx, 516.11, 516.40, 7x6.11: pressure &lt;15psi, no CRN required</b>

x - Any letter or number  
 All model designations maybe followed by numbers or letter, maybe separated by "-".

**1.6 Diaphragm Seals – data sheets are in separate binders**

**Table 3: Overview diaphragm seals included in CRN approval**

Diaphragm Seals	
970.xx; 981.xx; 983.xx; 990.xx	
Hydra Series	
M93x.xx (seal mounted to gauge from above list)	
Levelguard (seal mounted to level transmitter from above list)	
FWP; FWE; FWGO; FWGM; FWOT; FWOS	
TWA; PWJ	
CHL; CHK; PWM; FDE	
PWK; TWMS	

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x - Any letter or number  
 All model designations maybe followed by numbers or letter, maybe separated by "-".  
 The above models are covered under this CRN registration if mounted to a CRN approved measuring instrument.

**1.7 Thermometers – data sheets are in separate binders**

**Table 4: Overview mechanical temperature devices included in CRN approval**

Installation with Thermowell	Installation also without Thermowell
IFC	Model 73
MFT	Model 74
TF5x	Model 75
SC15xx	Model 76
SB15	TGS55
SW15	TGS73
TI 20 / 3x / 5x	TGS53
TI.V 2x / 3x / 4x	TGS54
TI.R 45 / 60	TG5x
TI 8x	TI.xx.3A
TT 3x / 5x	TG7x
MODEL 3x	
Model 4x	
Model 5x	

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Model 7x
TGS53
TGS54

x - Any letter or number  
 All model designations maybe followed by numbers or letter, maybe separated by "-".

The above models are covered under this CRN registration if mounted to a CRN approved thermowell. The models listed as 'installation also without thermowell' are covered under this CRN registration if the application allows for an installation without thermowell.

**1.8 Accessories – data sheets are in separate binders**

**Table 5: Overview accessories included in CRN approval**

Accessories	
910.11; 910.12	
910.13	
910.15	
910.25, 910.32, 910.80, 910.81	0F02026.2

All model designations maybe followed by numbers or letter, maybe separated by "-".

**1.9 Additional models with pressurized wetted parts – data sheets are in separate binders**

**Table 6: Overview additional models included in CRN approval**

Additional models		
TSD-30	Temperature transmitter	Made by WIKA
FSD-3	Flow transmitter	Wetted parts made by other manufacturer
FSD-4	Flow transmitter	Wetted parts made by other manufacturer
LH-20	Pressure transmitter	Made by other manufacturer
LSD-30	Level transmitter	Made by WIKA
LSD-4	Level transmitter	Made by other manufacturer
DP-10	Pressure transmitter	Made by other manufacturer
LF-1	Submersible pressure sensor	Made by WIKA

All model designations maybe followed by numbers or letter, maybe separated by "-".

**2. Drawings – CONFIDENTIAL – (Appendix A)**

**2.1 Electronic pressure**

The pressure transmitters (refer to 1.4) use one or more of the sensors as shown in the referenced drawings.

**Table 7: Pressure transmitters related to drawings**

Piezo Sensor	Thinfilm Sensor	Thinfilm Sensor (UHP)	Clamped Thinfilm Sensor	Ceramic Sensor
Drawing No. 11498677	Drawing No. 11498642	Drawing No. 11498642	Drawing No. 11514434	Drawing No. 11498651
Drawing No. 11508761	Drawing No. 11505524	Drawing No. 11505613	Drawing No. 11505346	Drawing No. 11500816
Drawing No. 11501766	Drawing No. 11501766	Drawing No. 11514418	Drawing No. 11501766	Drawing No. 11509244
	Drawing No. 14273906			Drawing No. 11501766

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**2.2 Mechanical and Mechatronic Pressure**

The pressure gauges (refer to 1.5) use one or more of the measuring elements as shown in the referenced drawings.

**Table 8: Pressure Gauges related to drawings**

Bourdon Tube Gauges		Diaphragm Gauges / Capsule Gauges		Differential Pressure Gauges	
Drawing No. 11536447	Drawing No. 40293165	Drawing No. 40292452	Drawing No. 11547538	Drawing No. 11539853	Drawing No. 40294374
Drawing No. 11534959		Drawing No. 40291308	Drawing No. 11549255	Drawing No. 50781677	Drawing No. 11549280
Drawing No. 11499789		Drawing No. 11534346	Drawing No. 14148954	Drawing No. 50781689	Drawing No. 40293157
Drawing No. 11499801		Drawing No. 11547198		Drawing No. 50773291	Drawing No. 11536533
Drawing No. 40292096		Drawing No. 11533901		Drawing No. 50773283	Drawing No. 11537435
Drawing No. 40293092		Drawing No. 11535629		Drawing No. 11548607	
Drawing No. 11549263				Drawing No. 40293165	

**2.3 Diaphragm Seals**

**Table 9: Diaphragm Seals**

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Diaphragm seals			
Drawing No. 81202112	Drawing No. 81202010	Drawing No. 81202323	
Drawing No. AG100147	Drawing No. AG100306	Drawing No. AG100388	Drawing No. AG100146

**2.4 Thermometers**

**Table 10: Bimetal thermometers**

Bimetal thermometers		
Drawing No. 14155388	Drawing No. 14155389	Drawing No. 14155390

**2.5 Accessories**

Refer to 1.8 in regards to the below referenced drawings.

**Table 11: Accessories related to drawings**

Accessories				
Drawing No. 11530022	Drawing No. 11108096	Drawing No. 9091238	Drawing No. 1440497	Drawing No. 9090681
Drawing No. 11526956	Drawing No. 0708348	Drawing No. 9090657	Drawing No. 1323270	Drawing No. 9090665
Drawing No. 11530405	Drawing No. 11406038	Drawing No. 9091220	Drawing No. 9091211	Drawing No. 1323660
	Drawing No. 0708631	Drawing No. 9090606	Drawing No. 9091190	Drawing No. 0763349

Technical Document: 19ART-03450 (20191114)

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Drawing No. 1064380	Drawing No. 9091203	Drawing No. 9091181	Drawing No. 1034227
------------------------	------------------------	------------------------	------------------------

**3. Welding procedures - CONFIDENTIAL**  
**3.1 Welding procedure qualification test certificate**  
 Overview see Appendix B

0F02026.2

**3.2 Pressure test documentation**

**Table 12: Overview pressure tests representative for all pressure transmitters**

Report No. / Year	Date tested	Representative Models	Rated pressure	T <sub>min</sub> / °C	T <sub>max</sub> / °C	Date approved
DGR0001/08	2008-03-07	PSD-30	1000 bar	-40	125	2008-04-28
DGR0002/08	2008-04-03	R-1	60 bar	-40	80	2008-04-28
DGR0003/08	2008-04-03	E/N/IS-10	25 bar	-40	105	2008-04-28
DGR0004/08	2008-05-20	S-10	40 bar	-40	125	2008-12-17
DGR0005/08	2008-05-20	S-10	1000 bar	-40	125	2008-12-17
DGR0006/08	2008-05-20	S-10	1000 bar	-40	125	2008-12-17
DGR0007/08	2008-05-20	ISE	1000 bar	-40	125	2008-08-21
DGR0008/08	2008-05-20	A-10	40 bar	-40	125	2008-12-17
DRG0009/08	2008-05-20	MH-2	40 bar	-40	125	2008-12-17
DRG0010/08	2008-05-20	MH-2	600 bar	-40	125	2008-12-17
DRG0011/08	2008-05-20	UHP	11 bar	-40	125	2008-12-17
DRG0012/08	2008-05-20	UHP	25 bar	-40	125	2008-12-17
DRG0013/08	2008-05-20	UHP	400 bar	-40	125	2008-12-17
DRG0014/08	2008-06-02	without	40 bar	-40	125	Only for reference
DRG0015/08	2008-06-02	without	1000 bar	N/A	N/A	Only for reference
DRG0016/08	2008-06-02	UHP	250 bar	-40	125	2008-12-17
DGR0017/08	2008-07-02	HP-2	6000 bar	N/A	N/A	2008-07-04
DGR0017/08	2008-07-02	HP-2	10000 bar	N/A	N/A	2008-07-04
DGR0018/08	2008-08-12	Seal diaphragm	600 bar	Room temperature		19.08.2008
DGR0019/09	2009-01-01	PSD-30 / A-10	40 bar	-40	125	2009-05-04
DGR0020/09	2009-01-02	PSD-30 / A-10	1000 bar	-40	125	2009-05-04
DGR0021/09	2009-01-03	MHS-1	600 bar	-40	125	2009-04-22
DGR0022/09	2009-01-04	PSD-30 / A-10	25 bar	-40	125	2009-05-04
DGR0023/09	2009-01-05	SPR-2	40 bar	-40	125	2009-05-04
DGR0024/09	2009-04-08	WUC	400 bar	N/A	N/A	2009-04-08
DGR0025/09	2009-03-02	R-1 D7/4	250 bar	-40	125	2009-05-04
DGR0026/09	2009-07-06	MH-2	600 bar	-40	125	N/A
DGR0027/09	2009-08-03	SCT-1	N/A	N/A	N/A	N/A
DGR0028/09	2009-08-10	MH-2	1000 bar	N/A	N/A	N/A
DGR0029/10	2010-02-11	S-11 HC-4	600 bar	-40	125	2010-07-02

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DGR0030/10	2010-02-23	SPR-2	40 bar	-40	125	2010-03-26
DGR0031/10	2010-04-23	Cooling kit	1000 bar		200	N/A
	2010-05-15				Room temperature	
DGR0032/10		MG-1	400 bar			
DGR0033/11	2011-02-22	O-10	600 bar			2011-02-22
DGR0034/13	2013-04-17	S-20	1600 bar			
DGR0035/11	2011-09-22	PSD-31	16 bar			2011-09-23
DGR0036/12	2012-01-30	MHS-1	1000 bar	-40	125	2012-01-31
DGR0037/13	2013-03-12	S-20 Kühlstrecke	400 bar		200	2013-03-19
DGR0038/13	2013-08-28	AC-1	60 bar			N/A
DGR0039/14	2014-03-13	TIS-20 STF	1100			2014-03-21
DGR0040/14	2014-03-14	TIS-20 SPR-2	40	-40	85	2014-03-21
DGR0041/14	2014-04-10	IS-3	400bar		200	2014-04-14
DGR0042/14	2014-05-19	S-20 Elgiloy	1600		Room temperature	2014-05-20
DGR0043/15	2015-11-06	MY-17	1000		Room temperature	2015-11-11
DGR0045/17	2017-02-21	MH-4	40		Room temperature	2017-04-05
DGR0046/17	2017-02-21	MH-4	1000		Room temperature	2017-04-05
DGR0047/17	2018-08-02	A-10 Elgiloy	1000		Room temperature	2018-08-08
DGR0048/18	2018-08-21	A-1200 / PSD-4-ECO	35 / 40 1000		Room temperature	2018-09-17
DGR0049/19	2019-10-01	MH-2, MH-3 und OT-1	40 / 1000		Room temperature	2019-11-07
DGR0050/19	2019-10-01	MH-4	40 / 1000		Room temperature	2019-11-04
DGR0051/19	2019-11-06	R-1, O-10, MY-17	16 / 40 / 75 600 / 1000		Room temperature	2019-11-08

### 3.3 Supporting material information list

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Table 13: Material specification and equivalent international designations

Material designation	Material	EN Standards	Equivalent US Standards	UNS No.	Equivalent US material designation
1.4404	X 2 CrNiMo 17-12-2	EN 10088-3, EN 10272	ASTM A 182-05 ASTM A 276-05 ASTM A 312-05 ASTM A 666-03	S31603	316 L
1.4435	X 2 CrNiMo 18-14-3	EN 10088-3, EN 10272	ASTM A 276-05 ASTM A 666-03	S31600	316 L
1.4671	X 6 CrNiMoTi 17-12-2	EN 10088-3, EN 10272	ASTM A 182-05 ASTM A 240-05 ASTM A 276-05 ASTM A 312-05	S31635	316Ti
1.4534	X3 CrNiMoAl 13-8-2	WL 1.4534 (Regulation according to the German Aviation Regulations)	ASTM A 564-04; ASTM A 693-03;	S13800	5412 (AMS); S13800 (AISI); XM-13 5629E (AMS);

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					5864B (AMS); 5934 (AMS); J 217 (1994) (SAE)
1.4568	X7CrNiAl17-7	DIN EN 10088-1 (09/2005) DIN EN 10088-2 (09/2005) DIN EN 10088-3 (09/2005) DIN EN 10151 (02/2003) DIN EN 10270-3 (08/2001) DIN EN 10088-4 (01/2006) DIN EN 10088-5 (01/2006)	ASTM A 693-03	S17700	
2.4711	CoCr20Ni15Mo		ASTM F 1058-02	R30003	5833C (AMS); F 1058 (R 30003) (ASTM); 5834C (AMS); 5875C (AMS); 5876C (AMS); Elgilloy, Phynox (Spec)
1.4542	X5CrNiCuNb 16-4 X5CrNiCuNb 17-4-4	EN 10088-3	ASTM A 564-04 ASTM A 693-03	S17400	630 (AISI) 5604 (AMS) 5622 (AMS) 5643 (AMS)
2.4360	NiCu 30 Fe; S-NiCu 30 Fe	DIN 17743 (09/2002)	ASTM B 164 ASTM B 165 ASTM B 127	N04400	B 127 (N 04400) (ASTM) B 164 (N 04400) (ASTM) B 165 (N 04400) (ASTM)
2.4602	Ni Cr 21 Mo 14 W	DIN 17744	ASTM B 574-06 ASTM B 575-06	N06022	C-22
2.4610	Ni Mo 16 Cr 16 Ti	DIN 17744	ASTM B 574-06 ASTM B 575-06	N06465	C-4
2.4819	NiMo16Cr15W	DIN 17745	ASTM B 575-06	N10275	C-275
3.7035	Ti II	DIN 17850	ASTM B-265	R50400	Grd. 2
CW608N			ASTM B 453	C35000	
CW614N			ASTM B 453	C35600	
1.0338	DC04; St 4 †; St 14 †	DIN 5512-2 (05/1997) DIN EN 10130 (02/2007) DIN EN 10139 (12/1997) DIN EN 10152 (08/2003) DIN EN 10271 (12/1998)	ASTM A 29-05	G10080	1008 (AISI)
1.3981	NiCo 29 18; (X3NiCo29-18)	DIN 17745 (09/2002) DIN SEW 385 (07/1991)	ASTM F 15-98	K94610	MIL-I-23011(1) (MIL); F 15 (K 94610) (ASTM); F 29 (K 94610) (ASTM); 7726F (AMS); 7727D (AMS); 7728G (AMS); KOVAR (Spec); NILO K (Spec)
1.4301	X5CrNi18-10	DIN 4133 (11/1991) DIN 5512-3 (05/2004) DIN EN 10028-7 (06/2000) DIN EN 10088-1 (09/2005) DIN EN 10088-2 (09/2005) DIN EN 10088-3 (09/2005) DIN EN 10151 (02/2003) DIN EN 10216-5 (11/2004) DIN EN 10217-7 (05/2005) DIN EN 10222-5 (02/2000) DIN EN 10250-4 (02/2000) DIN EN 10263-5 (02/2002) DIN EN 10264-4 (11.2002) DIN EN 10269 (07/2006) DIN EN 10272 (01/2001) DIN EN 10296-2 (02/2006) DIN EN 10297-2 (02/2006) DIN EN 10312 (04/2003)	ASTM A 182-05 ASTM A 276-05 ASTM A 312-05 ASTM A 666-03	K94610 S30400	MIL-S-24249/6 (MIL); 304

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		DIN SEW 310 (08/1992) DIN EN 10088-4 (01/2006) DIN EN 10088-5 (01/2006)			
1.4305	X10CrNi189	DIN EN 10088-1 (09/2005) DIN EN 10088-2 (09/2005) DIN EN 10088-3 (09/2005) DIN EN 10297-2 (02/2006) DIN EN 10088-5 (01/2006)	ASTM A 194	530300	303
CW453K			ASTM B 139	C52100	
CW508L			ASTM B 134 ASTM B 135	C27400	
CW456K			ASTM B 139	C54400	
CW408J				C78300	
CW101C			ASTM B 643	C17200	
CW451K			ASTM B 139	C51000	
1019 Steel			ASTM A 29	G10190	A 29 (1019) (ASTM)
Ni-Span-C				N09902	5221E (AMS) 5223F (AMS) 5225E (AMS)
2.4781	CoNi26Cr12Fe9Mo4 W4			R30600	Duratherm 600 (Spec)
2.4668	NiCr19Fe19Nb5Mo3 ; NiCr19NbMo †	DIN 17744 (09/2002) DIN EN 10088-1 (09/2005) DIN EN 10302 (09/2002)	ASTM B 670	N07718	B 670 (N 07718) (ASTM)
2.4375	NiCu 30 Al	DIN 17743 (09/2002)	ASTM B 865-04 ASTM F 467-05 ASTM F 468-05 ASTM F 2215-05		B 865 (N 05500) (ASTM) F 467 (500) (ASTM) F 468 (500) (ASTM) F 2215 (N 05500) (ASTM) 4676D (AMS)
				N05500	
2.4617	NiMo28	DIN 17744 (09/2002)	ASTM B 333-03 ASTM B 335-03 ASTM B 366-04 ASTM B 482-06 ASTM B 472-04 ASTM B 564-06 ASTM B 619-06 ASTM B 622-06 ASTM B 626-06	N10665	B 333 (N 10665) (ASTM); B 335 (N 10665) (ASTM); B 366 (N 10665) (ASTM); B 482 (N 10665) (ASTM); B 472 (N 10665) (ASTM); B 564 (N 10665) (ASTM); B 619 (N 10665) (ASTM); B 622 (N 10665) (ASTM); B 626 (N 10665) (ASTM); SB 333 (N 10665) (ASME); SB 335 (N 10665) (ASME); SB 366 (N 10665) (ASME); SB 619 (N 10665) (ASME); SB 622 (N 10665) (ASME); SB 626 (N 10665) (ASME); SFA 5.14 (ERNiMo-7) (ASME);
1.0501	C35	DIN EN 10083-2 (10/2006) DIN EN 10250-2 (12/1999) DIN EN 10277-2 (10/1999)	ASTM A 684	G10350	A 684 (1035) (ASTM)
1.0503	C45	DIN 5515 (07/2002) DIN EN 10083-2 (10/2006) DIN EN 10250-2 (12/1999) DIN EN 10277-2 (10/1999)	ASTM A 684	G10450	A 684 (1045) (ASTM)
0.6020	EN-GJL-200: GG-20 †	DIN EN 1561 (08/1997)	ASTM A 48	-	A 48 (30B) (ASTM)
1.4310	X10CrNi18-8; X 12 CrNi 17 7 †	DIN EN 10151 (02/2003) DIN EN 10263-5 (02/2002) DIN EN 10264-4 (11.2002) DIN EN 10270-3 (08/2001)	ASTM A 866	S30100	A 866 (301) (ASTM)
3.2982	xxx	xxx	ASTM A 413-01	K03700	A 413 (ASTM)

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1.4006	X12Cr13; X 10 Cr 13 †	DIN EN 10088-1 (09/2005) DIN EN 10088-2 (09/2005) DIN EN 10088-3 (09/2005) DIN EN 10250-4 (02/2000) DIN EN 10263-5 (02/2002) DIN EN 10272 (01/2001) DIN EN 10297-2 (02/2006) DIN SEW 310 (08/1992) DIN EN 10088-4 (01/2006) DIN EN 10088-5 (01/2006)	ASTM A 182	S41000	A 182 (F 6a) (ASTM)
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#### 4. Supporting Documentation

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**4.4 Quality procedure certificates**

**4.4.1 ISO 9001**  
See Appendix C

**4.4.2 Pressure certifications**  
See Appendix D

**4.5 Customer logos - CONFIDENTIAL**  
See Appendix E

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Stempel der Prüfstelle / Stamp of certification body	Firmenstempel / Stamp of company

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