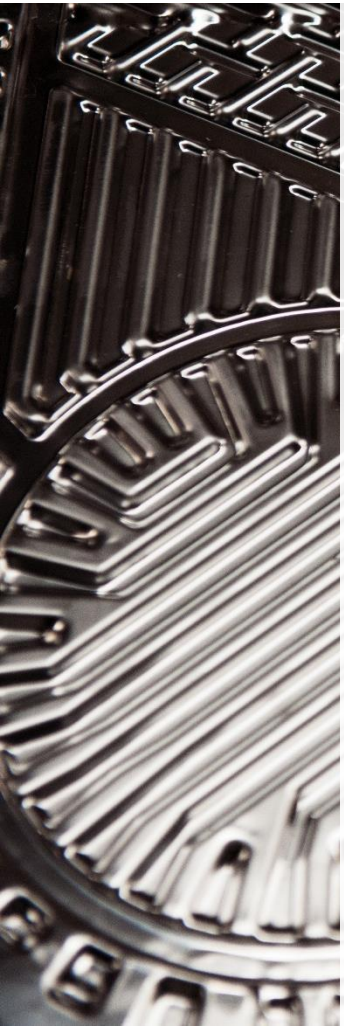
Kelvion

AFTER SALES & SERVICE FOR PLATE HEAT EXCHANGERS

OUR PROMISE


Efficiency
Optimised operational sequences and maximum availability of systems ensure better economic profitability
Quality and safety
Maximum service quality is the result of individual customer advisory service and precise work
Innovation
Innovation creates solutions for the different requirements specified by our customers
GLOBAL
24/7 SERVICE
NETWORK
Expert knowledge
Our indepth knowledge and experience result in focused competence, thus offering significant benefits to our customers
Trust
Reliability, sense of responsibility and transparency in customer communi-cation distinguish the work of our service staff

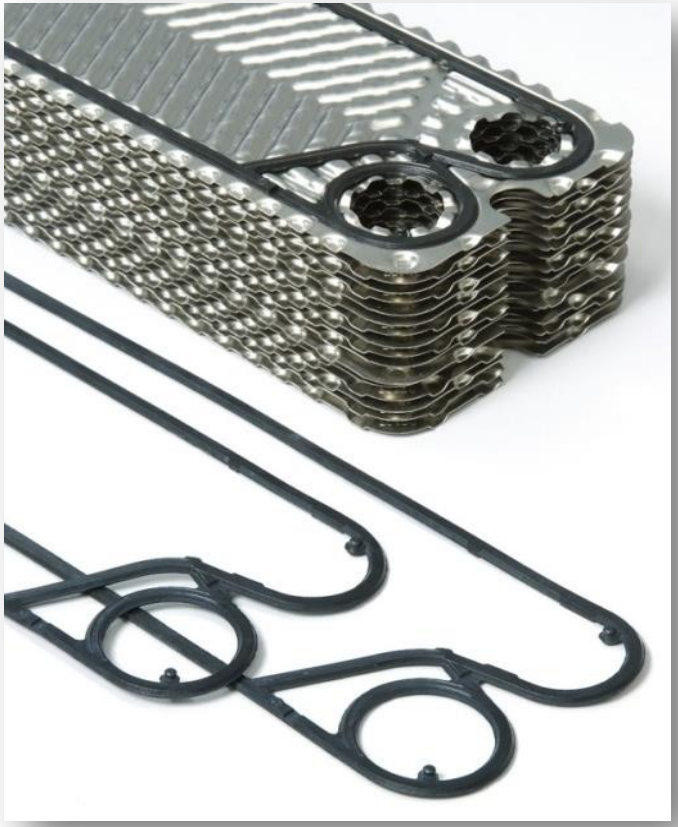
SCOPE OF DELIVERY AND SERVICES



- Supply of spare parts
- Repair and cleaning
- Installation support
- In-house and on-site services
- Visual inspection and performance audit as part of proactive maintenance

SPARE PARTS SERVICES

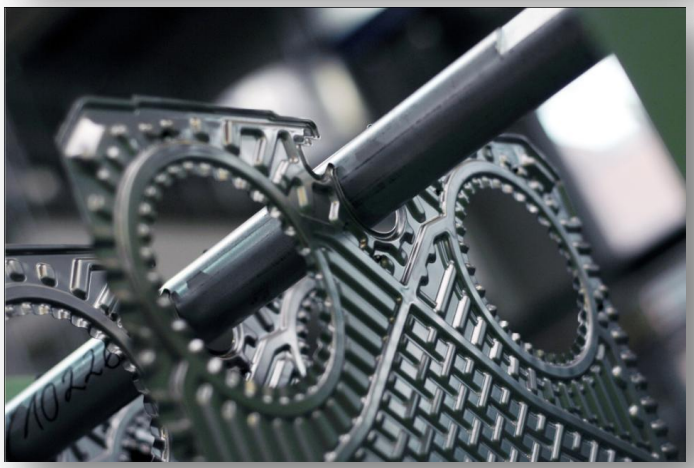
FOR KELVION (AND GEA) PLATE HEAT EXCHANGERS AND FOR OTHER MANUFACTURERS



- Single gaskets
- Gasket packages
- Single plates
- Plate packages
- Frame parts*
- Frames*
- Technical information
- Replacement packages
- Service logistics

*for Kelvion or GEA plate heat exchangers only

ON-SITE SERVICES



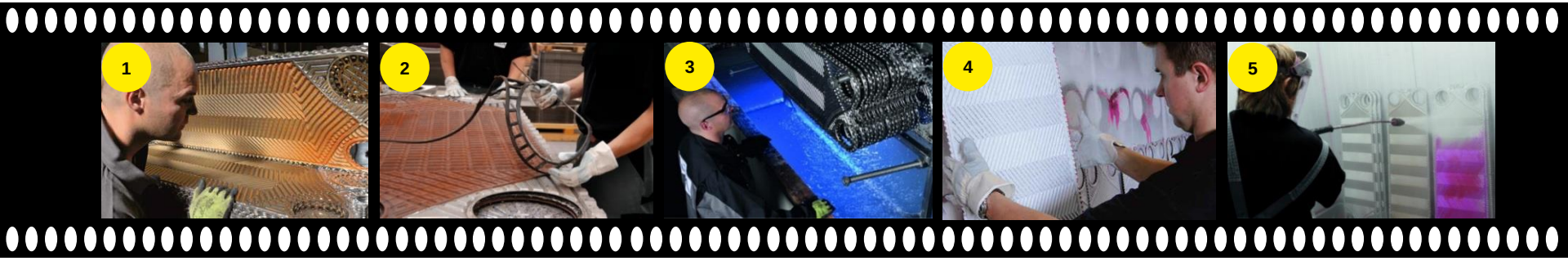
Installations and modifications

- Modifications
- Leakage testing
- Pressure tests incl. certification

Inspection, cleaning and repair

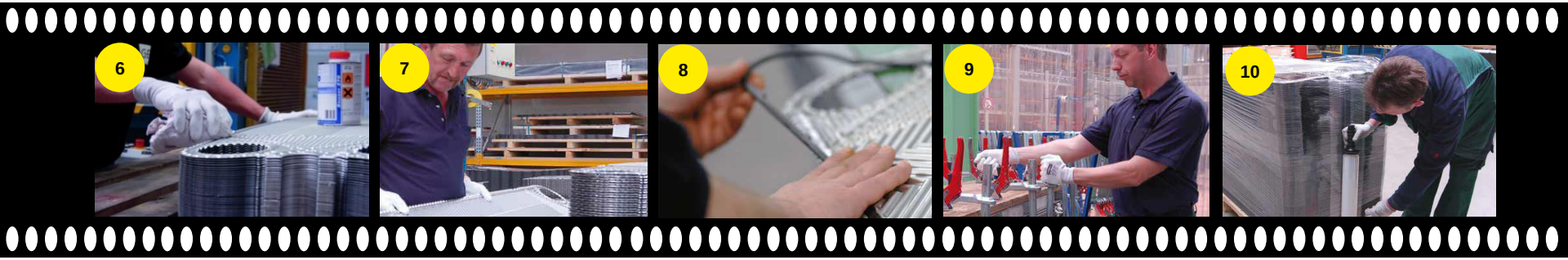
- Visual inspection
- Cleaning
- Replacement of gaskets and plates
- Modifications
- Leakage testing
- Pressure tests incl. certification
- Hydrogen leakage testing

MAINTENANCE



1. Upon receipt of your plates, we will perform an initial inspection of the plate and gasket integrity
2. Thorough removal of the old gasket to ensure a good clean surface
3. Chemical cleaning of the plates removes persistent deposits
4. Dye penetration test is performed to determine cracks or pin holes
5. Removal of residues after dye penetration test

MAINTENANCE



6 The gasket groove is cleaned and prepared for the regasketing process

7 Final inspection of each plate prior to regasketing

8 New gaskets are fitted

9 For glued gaskets – additional tensioning of plate pack and glue curing in an oven

10 Final Kelvion inspection and careful pack for safe transportation

HYDROGEN LEAKAGE TESTING

HYDROGEN LEAKAGE TESTING

Leakage test on systems

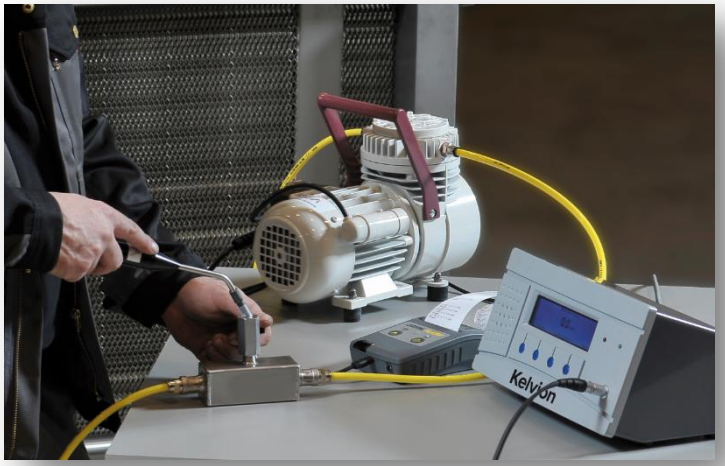
- High specific industry requirements
- Hygienic guidelines:
  - IFS (International Food Standard)
  - HACCP (Hazard Analysis Critical Control Point)

Hydrogen method

- This method is based on a testing gas (inert gas, consisting of 10 % H2 and 90 % N2) that is suitable for both leak detection and tightness testing
- Hydrogen at the correct concentration is absolutely safe (ISO 101569). In fact, hydrogen/nitrogen mixtures are also commonly used as a inert gas atmosphere

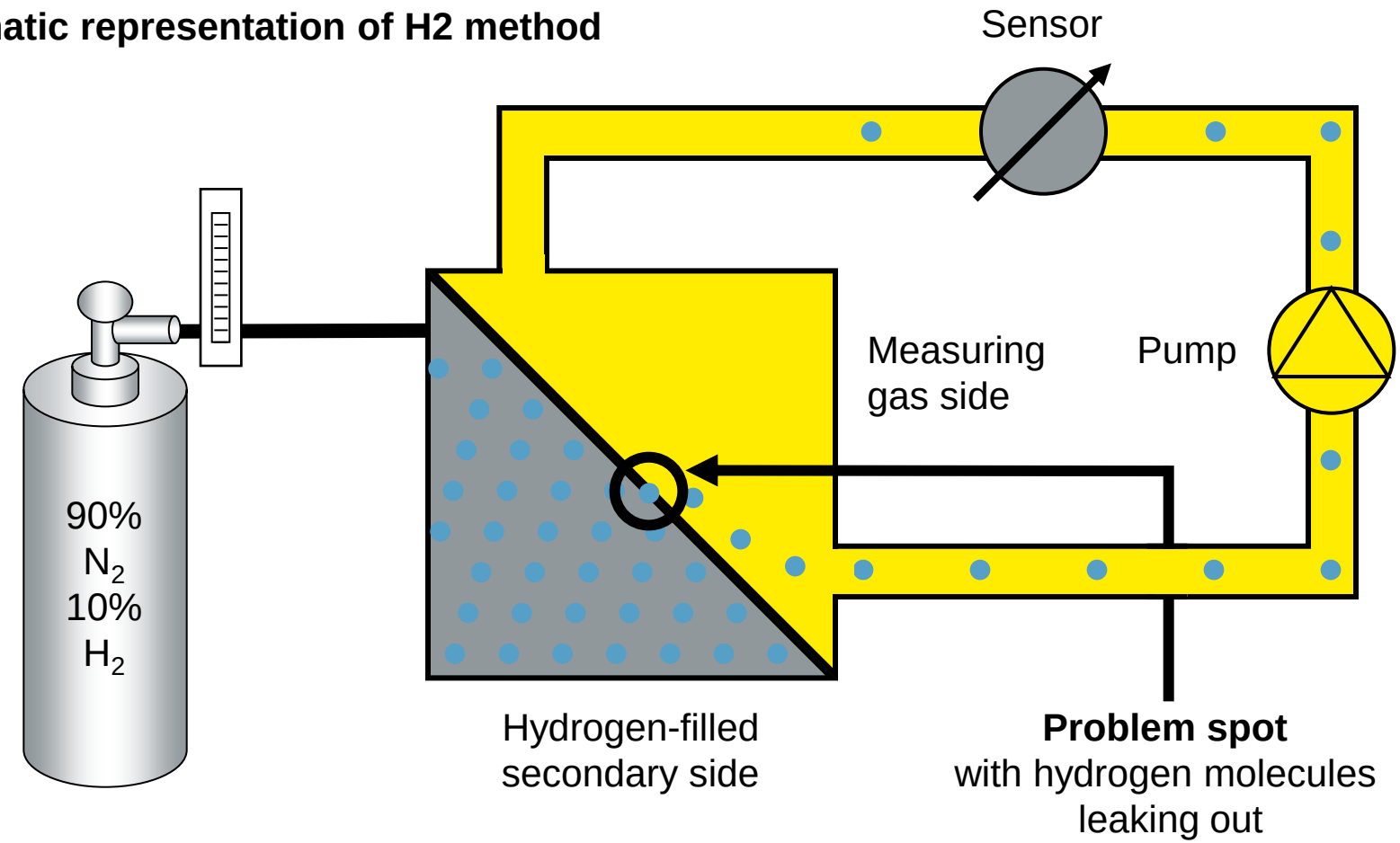
Hydrogen Leak Detector EcoSafe 2000

- Robust and simple construction for industrial surrounding
- Fast response behavior
- Early detection of material fatigue
- Mobile and can be applied at short notice
- 10% hydrogen result in 100% safety
- Proven product quality management



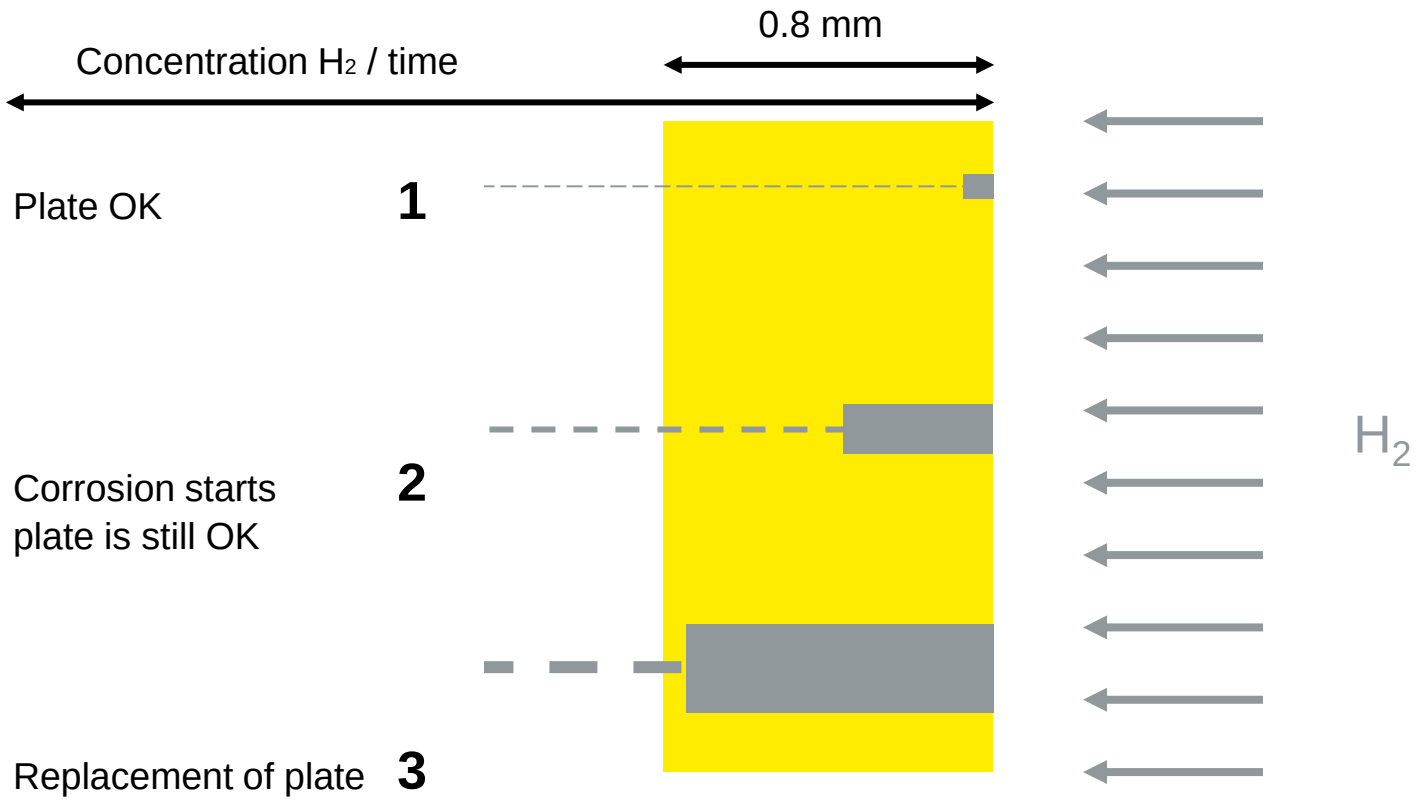
HYDROGEN LEAKAGE TESTING

Schematic representation of H2 method



HYDROGEN LEAKAGE TESTING

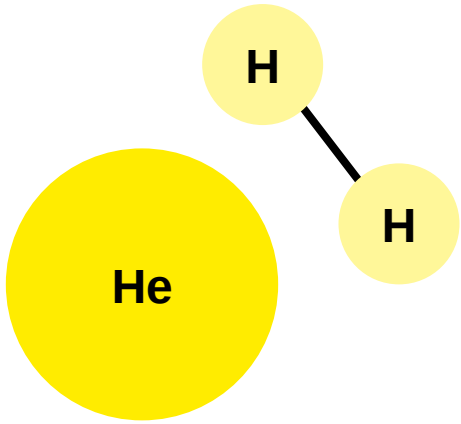
Early detection of material fatigue



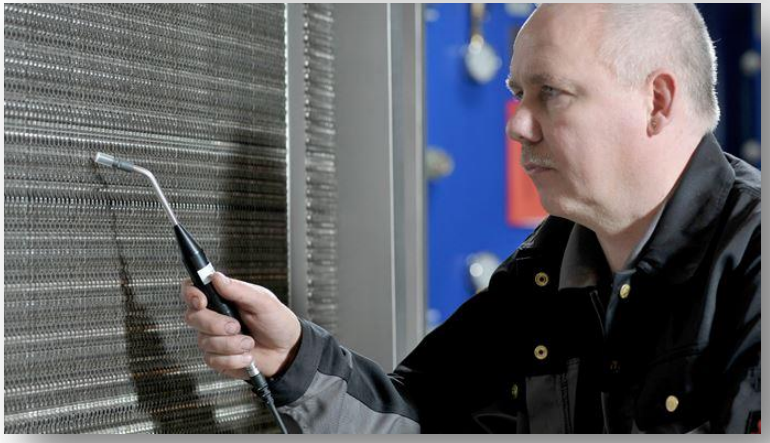
PREVENTIVE TESTING METHODS

	Air	Hydrogen	Helium
Molecular weight	29 g/mol	2 g/mol	4 g/mol
Density	1.2 g/l	0.09 g/l	0.18 g/l
Viscosity	18.3 10^{-6} Pa s	8.7 10^{-6} Pa s	19.4 10^{-6} Pa s
Background concentration	100%	0.5 ppm	5 ppm

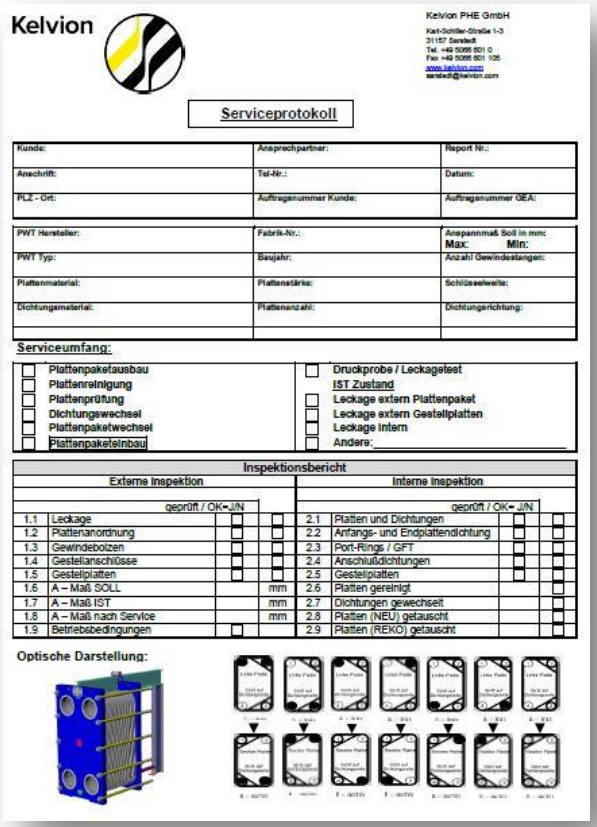
- Lightweight molecule
- Very low viscosity
- Low background concentration (0.5 ppm)
- Environmentally compatible
- Cheapest testing gas (around 25% of cost of helium)
- Non-toxic
- Non-corrosive
- Food approval (E 949)



IN PRACTICE



QUALITY AND PERFECTION ARE OUR PASSION



Kelvion

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Serviceprotokoll

Kunde:	Ansprechpartner:	Report Nr.:
Anschrift:	Tel-Nr.:	Datum:
PLZ - Ort:	Auftragsnummer Kunde:	Auftragsnummer GEA:
PWT Hersteller:	Fabrik-Nr.:	Anspannmaß Soll in mm: Max: Min:
PWT Typ:	Baujahr:	Anzahl Gewindestangen:
Plattenmaterial:	Plattenstärke:	Schlüsselweite:
Dichtungsmaterial:	Plattenanzahl:	Dichtungsrichtung:

Serviceumfang:

- ☐ Plattenpaketausbau
- ☐ Plattenreinigung
- ☐ Plattenprüfung
- ☐ Dichtungswechsel
- ☐ Plattenpaketwechsel
- ☐ Plattenpaketeinbau
- ☐ Druckprobe / Leckagetest
  IST Zustand
- ☐ Leckage extern Plattenpaket
- ☐ Leckage extern Gestellplatten
- ☐ Leckage intern
- ☐ Andere: _____

Inspektionsbericht

Externe Inspektion				Interne Inspektion			
		geprüft / OK= JN				geprüft / OK= JN	
1.1	Leckage	☐	☐	2.1	Platten und Dichtungen	☐	☐
1.2	Plattenanordnung	☐	☐	2.2	Anfangs- und Endplattendichtung	☐	☐
1.3	Gewindebolzen	☐	☐	2.3	Port-Rings / GFT	☐	☐
1.4	Gestellanschlüsse	☐	☐	2.4	Anschlußdichtungen	☐	☐
1.5	Gestellplatten	☐	☐	2.5	Gestellplatten	☐	☐
1.6	A – Maß SOLL		mm	2.6	Platten gereinigt		☐
1.7	A – Maß IST		mm	2.7	Dichtungen gewechselt		☐
1.8	A – Maß nach Service		mm	2.8	Platten (NEU) getauscht		☐
1.9	Betriebsbedingungen	☐		2.9	Platten (REKO) getauscht		☐

Optische Darstellung:

PÜG

ZERTIFIKAT

PÜG Prüf- und Überwachungsgesellschaft mbH

hat am 16.06.2014 in Holzwickede an einer

SGU-Prüfung von operativ tätigen Führungskräften

gemäß Dokument 017
des normativen SCC-Regelwerkes (Version 2011)
teilgenommen und bestanden.

DAkkS
Deutsche Akkreditierungsstelle
D-ZP-16007-01-01

SICHERHEITS CERTIFIKAT CONTRAKTOREN

Dieses Dokument ist gültig bis 15.06.2024.
Registriernummer: 0614SCC0165F

Gäufelden, 23.06.2014

Prüfungsleiter
Dipl.-Ing. Rainer Heermann

Bereichsleiterin SGU-Personalzertifizierung
Andrea Schönhaar

PÜG

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