

## Deutsche Akkreditierungsstelle GmbH

**Entrusted according to Section 8 subsection 1 AkkStelleG in connection with Section 1 subsection 1 AkkStelleGBV**

Signatory to the Multilateral Agreements of  
EA, ILAC and IAF for Mutual Recognition

## Accreditation



The Deutsche Akkreditierungsstelle GmbH attests that the calibration laboratory

**Hydrotechnik GmbH**

**Holzheimer Straße 94 - 96, 65549 Limburg a. d. Lahn, Germany**

is competent under the terms of DIN EN ISO/IEC 17025:2005 to carry out calibrations in the following fields:

**Mechanical quantities:**

- Pressure

**Fluid Quantities**

- Liquid flow rate

The accreditation certificate shall only apply in connection with the notice of accreditation of 2013-08-30 with the accreditation number D-K-15045-01 and is valid until 2018-08-29. It comprises the cover sheet, the reverse side of the cover sheet and the following annex with a total of two pages.

Registration number of the certificate: **D-K -15045-01-00**

Braunschweig, 2013-08-30

signed  
Dr. Michael Wolf  
Head of Division

This document is a translation. The definitive version is the original German accreditation certificate.

See notes overleaf.

## Deutsche Akkreditierungsstelle GmbH

### Annex to the Accreditation Certificate D-K-15045-01-00 according to ISO/IEC 17025:2005

Period of validity: 2013-08-30 to 2018-08-29

Date of issue: 2013-08-30

Holder of certificate:

**Hydrotechnik GmbH**

**Holzheimer Straße 94 - 96, 65549 Limburg a. d. Lahn, Germany**

Head: Peter Kraus  
Deputy: Robert Rinkart

Accredited since: 1987-01-29

Calibrations in the fields:

**Mechanical quantities:**

- Pressure

**Fluid Quantities**

- Liquid flow rate

Abbreviations used: see last page

**Annex to the accreditation certificate D-K-15045-01-00**
**Permanent Laboratory**

Measured quantity / Calibration item	Range	Measurement conditions / procedure	Best measurement capability <sup>1)</sup>	Remarks
<b>Pressure</b>  Positive and negative gauge pressure $p_e$	-1 bar to -0,015 bar	DAkkS-DKD-R 6-1 EURAMET/cg-17 DIN EN 837	$8,0 \cdot 10^{-5} \cdot p_e$ , but not lower than 0,03 mbar	Pressure medium: Gas
	0,015 bar to 1 bar			
	> 1 bar to 7 bar		$1,0 \cdot 10^{-4} \cdot p_e$	
Gauge pressure $p_e$	3 bar to 60 bar		$1,0 \cdot 10^{-4} \cdot p_e$ , but not lower than 0,5 mbar	Pressure medium: Oil
	> 60 bar to 300 bar		$1,0 \cdot 10^{-4} \cdot p_e$	
	> 300 bar to 1200 bar		$1,5 \cdot 10^{-4} \cdot p_e$	
<b>Liquid flow rate</b>	0,005 l/min to 40 l/min	Volumetric measurement based on piston-type prover	0,2 %	
	0,2 l/min to 600 l/min		0,2 %	

**Abbreviations used:**

DAkkS-DKD-R	Calibration guideline of Deutsche Akkreditierungsstelle previously Deutsche Kalibrierdienst
DIN	German Institute for Standardization
EN	European Norm
EURAMET	European Association of National Metrology Institutes

<sup>1)</sup> The best measurement capabilities are stated according to EA-4/02. These are expanded uncertainties of measurement with a coverage probability of 95% and have a coverage factor of  $k = 2$  unless stated otherwise. Uncertainties without unit are relative uncertainties referring to the measurement value unless stated otherwise.