B E L A C

Organisme belge d'Accréditation
Belgische Accreditatieinstelling
Belgische Akkreditierungsstelle
Belgian Accreditation Body

EA MLA Signatory

Bijlage bij accreditatie-certificaat
Annexe au certificat d'accréditation
Annex to the accreditation certificate
Beilage zur Akkreditierungszertifikat

001-CAL

EN ISO/IEC 17025:2017

Versie / Version / Version / Fassung	20
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Maureen Logghe

Voorzitster van het Accreditatiebureau

La Présidente du Bureau d'Accréditation

Chair of the Accreditation Board

Vorsitzende des Akkreditierungsbüro

De accreditatie werd uitgereikt aan / L'accréditation est délivrée à / The accreditation is granted to / Die akkreditierung wurde erteilt für:

TRESCAL nv
Vosstraat, 200
2600 Antwerpen

Activiteitencentra / Sites d'activités / Sites of activities / Standorte mit aktivitäten:

Locatie 1: BERCHEM	Vosstraat 200 2600 Antwerpen
Locatie 2: WELLIN	Rue Jean Meunier, 2 6922 Wellin
Locatie 3: LOUVAIN-LA-NEUVE	Rue du Bosquet, 7 1348 Ottignies-Louvain-la-Neuve

Pressure and Vacuum Berchem

Calibration and Measurement Capabilities

Gas pressure

Measured quantity, instrument or gauge	Range	expanded uncertainty (*)	Remarks	Calibration procedure
Gauges, digital indicators, plotters, calibrators, liquid column, transmitters, transducers and pressure balances for relative and absolute[1] pressures	0 Pa to 4800 Pa	$1 \times 10^{-4} \times p$ minimum 0,03 Pa	By comparison with a low pressure standard	P2-02-P.002
	-100 kPa to -1,5 kPa	$80 \times 10^{-6} \times p$	By comparison with a gas pressure balance	P2-02-P.001 P2-02-P.007
	1,5 kPa to 5,0 kPa	$80 \times 10^{-6} \times p$		
	5,0 kPa to 350 kPa	$20 \times 10^{-6} \times p$		
	5,0 kPa to 1,9 MPa	$26 \times 10^{-6} \times p$		
	1,9 MPa to 7,6 MPa	$30 \times 10^{-6} \times p$		
	7,6 MPa to 12 MPa	$70 \times 10^{-6} \times p$		
Barometers	5,0 kPa to 350 kPa abs	$20 \times 10^{-6} \times p$	By comparison with a gas pressure balance	
Piston/cilinder combination (effective area)[2]	5,0 kPa to 350 kPa	$20 \times 10^{-6} \times p$	By comparison with a gas pressure balance	
	350 kPa to 1,9 MPa	$25 \times 10^{-6} \times p$		
	1,9 MPa to 7,6 MPa	$30 \times 10^{-6} \times p$		
	7,6 MPa to 12 MPa	$70 \times 10^{-6} \times p$		

1 For absolute pressures the uncertainty of the atmospheric pressure is added to the uncertainty (except when working with an absolute pressure balance)
2 The masses can be calibrated in our mass laboratory

Liquid pressure

Measured quantity, instrument or gauge	Range	expanded uncertainty (*)	Remarks	Calibration procedure
Gauges, digital indicators, plotters, calibrators, liquid column, transmitters, transducers and pressure balances for relative and absolute[1] pressures	0,5 MPa to 100 Mpa	$3,0 \times 10^{-5} \times p$	By comparison with a liquid pressure balance	P2-02-P.001 P2-02-P.007
	100 MPa to 120 Mpa	$7,0 \times 10^{-5} \times p$		
	120 MPa to 400 MPa	$2,5 \times 10^{-4} \times p$		
Piston/cilinder combination (effective area)[2]	0,5 MPa to 100 Mpa	$3,0 \times 10^{-5} \times p$	By comparison with a liquid pressure balance	
	100 MPa to 120 Mpa	$7,0 \times 10^{-5} \times p$		
	120 MPa to 400 MPa	$2,5 \times 10^{-4} \times p$		

1 For absolute pressures the uncertainty of the atmospheric pressure is added to the uncertainty (except when working with an absolute pressure balance)
2 The masses can be calibrated in our mass laboratory

Vacuum quantities

Measured quantity, instrument or gauge	Range	expanded uncertainty (*)	Remarks	Calibration procedure
Absolute pressure	**1 Pa to 30 Pa**	$2 \times 10^{-2} \times p$	By comparison with capacitive pressure indicators	RP/02/KC/P.05 RP/02/KC/P.06
	30 Pa to 5 kPa	$5{,}0 \times 10^{-3} \times p$		
	1 mPa to 1 Pa	$2{,}5 \times 10^{-2} \times p + 5$ mPa		

Onsite

Measured quantity, instrument or gauge	Range	expanded uncertainty (*)	Remarks	Calibration procedure
Relative pressures	20 kPa to 60 MPa	$1 \times 10^{-3} \times p$	By comparison with digital pressure indicators	RP/02/KC/S.01
Absolute pressures	20 kPa to 60 MPa abs.	$1 \times 10^{-3} \times p$		

(*) the smallest uncertainty of measurement the laboratory can provide to its customers, expressed as the expanded uncertainty having a coverage probability of approximately 95%.