Field of Measurement	Parameter and Range of Measurement	Calibration Measurement Uncertainty (±)	Standard/Test Method Technique/Equipment
3. Mechanical	**Force measuring instrument** **Compression mode** **Increasing and decreasing**		
	1 kN to 0.44 MN	0.40 mN/N	ISO 376
	1 kN to 0.44 MN	0.50 mN/N	ISO 7500-1
	8 N to 2 300 N	0.084 %	ISO 7500-1 by comparison against standard mass
	Tension mode **Increasing and decreasing**		
	1 kN to 0.44 MN	0.40 mN/N	ISO 376
	1 kN to 0.44 MN	0.50 mN/N	ISO 7500-1
	8 N to 2 300 N	0.084 %	ISO 7500-1 by comparison against standard mass
	Cable tensiometer **Tension** **Increasing only**		ISO 7500-1 by comparison against standard mass
	44 N to 1 800 N	0.16 %	
	1 300 N to 8 900 N	0.60 %	ISO 7500-1 by comparison against standard dynamometer
	Hand torque tools **Torque wrench**		ISO 6789
	Type I (Class A, and C)		
	1 N·m to 5 400 N·m	5.0 mN·m/N·m	
	Type II (Class A, and C)		
	1 N·m to 5 400 N·m	10 mN·m/N·m	
	Torque screw driver		
	Type II (Class D, E, and F)		
	1 N·m to 10 N·m	10 mN·m/N·m	
	Pressure measuring devices **Absolute pressure (*Pabs*)**		DKD R 6-1 Pressure medium: N2, air
	1.4 kPa to 175 kPa	2.7×10^{-5} *Pabs* but not smaller than 0.70 Pa	
	> 175 kPa to 700 kPa	2.8×10^{-5} *Pabs*	
	> 700 kPa to 7 000 kPa	3.0×10^{-5} *Pabs*	
	Gauge pressure *(Pe)*		Pressure medium: N2, air
	1.4 kPa to 175 kPa	2.7×10^{-5} *Pe* but not smaller than 0.50 Pa	
	> 175 kPa to 700 kPa	2.8×10^{-5} *Pe*	
	> 700 kPa to 7 000 kPa	3.0×10^{-5} *Pe*	
	> 7 MPa to 14 MPa	1.6 kPa	
	> 14 MPa to 42 MPa	4.8 kPa	
	0.5 MPa to 40 MPa	4.9×10^{-5} *Pe* but not smaller than 0.20 kPa	Pressure medium: oil
	> 40 MPa to 139 MPa	5.8×10^{-5} *Pe*	

Field of Measurement	Parameter and Range of Measurement	Calibration Measurement Uncertainty (±)	Standard/Test Method Technique/Equipment
3. Mechanical (Cont.)	**Pressure balance**		EURAMET cg-3 (method A)
	1.4 kPa to 175 kPa	3.8×10^{-5} *Pe* but not smaller than 0.66 Pa	Pressure medium: N2
	> 175 kPa to 700 kPa	3.9×10^{-5} *Pe*	
	> 700 kPa to 7 MPa	4.1×10^{-5} *Pe*	
	0.5 MPa to 40 MPa	5.3×10^{-5} *Pe* but not smaller than 0.21 kPa	Pressure medium: oil
	> 40 MPa to 139 MPa	5.9×10^{-5} *Pe*	
	Pressure measuring devices		DKD R 6-1
	Differential pressure (P*diff*)		Pressure medium: N2, air
	0 kPa to 250 kPa	12 Pa	Line pressure: ambient
	> 250 kPa to 700 kPa	49 Pa	pressure
	> 700 kPa to 7 000 kPa	0.32 kPa	
	Vacuum measuring devices		
	Absolute pressure (Pabs)		Pressure medium: N2
	0.14 Pa to 2 Pa	4.4×10^{-2} Pabs	
	> 2 Pa to 13 Pa	3.0×10^{-2} Pabs	
	> 13 Pa to 90 Pa	8.6×10^{-3} Pabs	
	> 90 Pa to 1.3 kPa	3.8×10^{-3} Pabs	
	> 1.3 kPa to 13 kPa	4.2×10^{-3} Pabs	
	Gauge pressure (*Pe*)		Pressure medium: N2, air
	-98 kPa to 0 kPa	10 Pa	
	Force measuring instrument		ISO 376
	Compression mode		ISO 7500-1
	Increasing and decreasing		
	1 kN to 0.44 MN	0.70 mN/N	
	Tension mode		
	Increasing and decreasing		
	1 kN to 0.44 MN	0.70 mN/N	
	Pressure measuring devices		DKD R 6-1
	Absolute pressure (Pabs)		Pressure medium: N2, air
	1.4 kPa to 135 kPa	12 Pa	
	> 135 kPa to 280 kPa	30 Pa	
	> 280 kPa to 350 kPa	67 Pa	
	> 350 kPa to 700 kPa	73 Pa	
	> 700 kPa to 2 800 kPa	0.30 kPa	
	> 2.8 MPa to 7 MPa	0.73 kPa	
	Gauge pressure *(Pe)*		Pressure medium: N2, air
	1.4 kPa to 280 kPa	30 Pa	
	> 280 kPa to 700 kPa	73 Pa	
	> 700 kPa to 2.8 MPa	0.30 kPa	
	> 2.8 MPa to 7 MPa	0.73 kPa	
	Vacuum measuring device		DKD R 6-1
	Gauge pressure (Pe)		Pressure medium: N2, air
	-98 kPa to 0 kPa	44 Pa	