






Available Calibration Services at the Pressure Laboratory

Calibration

MEASURAND	MEASURING INTERVAL	EXPANDED UNCERTAINTY (k=2)	CMC (CIPM-MRA)
gauge pressure (oil)	0,2 MPa - 10 MPa	$[27^2 + (5,8 \times 10^{-5} \cdot p)^2]^{1/2}$	
	10 MPa - 100 MPa	$5,5 \times 10^{-5} \cdot p$	
gauge pressure (gas)	3,5 kPa - 2 MPa	$3,0 \times 10^{-5} \cdot p$	
negative gauge pressure	-0,5 kPa - -0,1 MPa	33 Pa	
absolute pressure	3,5 kPa - 170 kPa	$0,4 \text{ Pa} + 3,5 \times 10^{-5} \cdot p$	

Note: p in Pa

Metrological Control

EQUIPMENT	TESTS	LAWS
Manometers, vacuum meters, and manovacuum meters	Pattern Approval	Portaria n.º 422/98 de 21 de Julho
Manometers for automobile pneumatics without pre-booking	Pattern Approval	Portaria n.º 963/90 de 9 de Outubro
Manometers for automobile pneumatics with pre-booking and digital manometers	Pattern Approval	Portaria n.º 389/98 de 6 Julho