

Standard Calibration Criteria – Pressure Offerings

Decision Rules

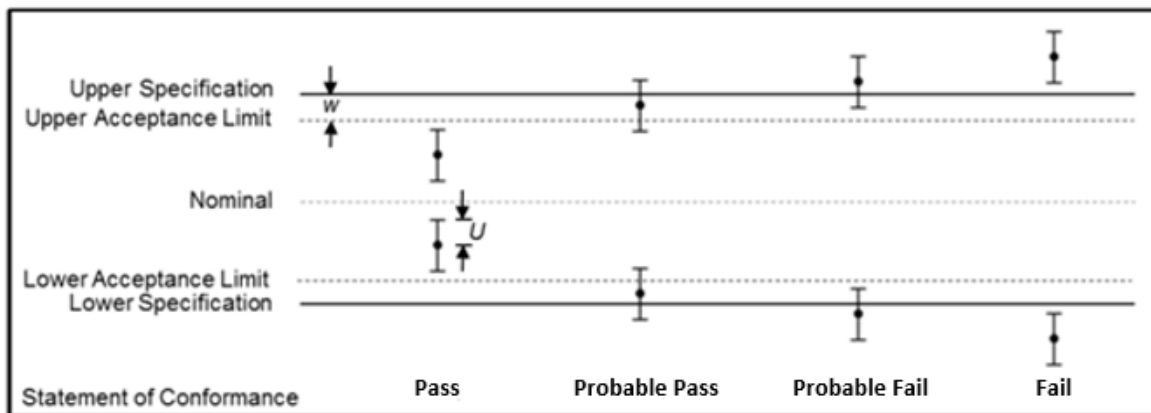
Conformity is reported using guard banding as detailed below:

Result	Symbol	Explanation
Pass ¹	None	The result is within the specified limits provided even when including the measurement uncertainty.
Probable Pass	!	The result is within the specified limits, however when including the measurement uncertainty, the result may be outside of the limits. However, compliance with the specified limits is more likely than non-compliance.
Probable Fail	^	The result is outside the specified limits, however when including the measurement uncertainty, the result may be inside of the limits. However, non-compliance with the specified limits is more likely than compliance.
Fail	F	The result is outside the specified limits provided even when including the measurement uncertainty.
No Conformity	@	The Calibration uncertainty is greater than the specified limit, therefore conformity can not be provided. Calibration will also be marked as limited calibration.

Notes

¹ = The absence of a compliance annotation can also mean that the measurement taken does not have any specified limits. In this instance, the calibration result would also be classified as a “PASS”.

Example of Guard Banding:



U = 95% expanded measurement uncertainty

Standard Calibration Criteria

- ✓ Calibration certificates will be in an electronic format. It will be digitally signed and emailed to the customer shortly after the completion of the calibration. If particular timescales are required for the provision of the certificate, these must be highlighted at the enquiry stage.
- ✓ We will **not** accept equipment used on **Oxygen** or **Skydrol** systems.
- ✓ All pressure fittings on equipment received shall be in a good condition, items may be returned without calibration if found to be otherwise – there will still be a charge for this.
- ✓ All pressure equipment used on fluids of any kind must be flushed prior to being sent to our laboratory to avoid cross contamination.
- ✓ All pressure equipment will be calibrated as per the manufacturer's instructions which will include the allowed tolerances, if applicable. If no manufacturers tolerance is available, then no tolerance will be used.
- ✓ Pressure equipment will be calibrated in the vertical position.
- ✓ All pressure equipment will be calibrated to a minimum of 10 test points at approximately:
 - 0, 20, 40, 60, 80, 100% of full range rising
 - 80, 60, 40, 20 and 0% falling
- ✓ Vacuum instruments will be calibrated up to 90% of maximum vacuum.
- ✓ Mechanical pressure equipment will be calibrated to the outer scale, this will include the unit of measure.
- ✓ Digital pressure equipment, where multiple units of measure are possible, will be calibrated in psi or bar unless agreed otherwise.
- ✓ All high-pressure gas gauges shall be fitted with safety glass. Replacement glass can be offered for an additional cost.
- ✓ Further information may be required to calibrate pressure sensors/transducers. This may include but is not limited to wiring configurations, product manuals or previous calibration certificates. There may be some delay with your order if this was to occur.