

Surface Finish Measurement

HC4 Diaphragm Valves

The Ra value (roughness average) has become the established method of quantifying the surface finish of a stainless steel surface.

It can be identified as the average value of all the absolute distances of the roughness profile R from the center line within the measuring length l_m .

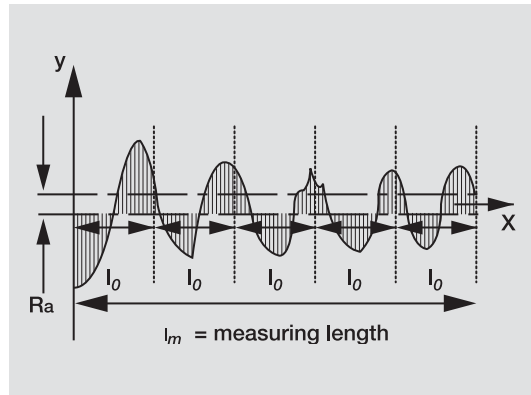
Surface Finish can then be described by using the roughness average (Ra) value.

Conversion – μm to μ inches
 1 micro meter = 39.3701 micro inches
 1 micro inch = 0.0254 micro meters

Crane Process Flow Technologies utilizes electronic measurement equipment for this purpose and can, if requested, supply official certification for a particular order.

Designated points (internally and externally) are measured to provide consistent methodology, although all wetted areas will conform to the specification requirements.

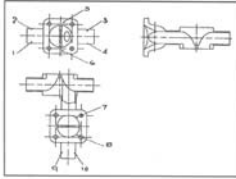
Details of the certification are shown.



Arithmetic mean roughness value:

$$Ra = \frac{1}{l_m} \int_{x=0}^{x=l_m} |y| dx$$

HC4/004/01/11.02

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