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## ISO 3601

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Global O-Ring and Seal is fully compliant to the dimension and tolerance standards spelled out in **ISO 3601-1 Class A** for all standard series O-rings and **Class B** for all metric series O-rings. The size/tolerance charts can be found on our [AS568 webpage](#) as well as on our [Metric O-Ring Tolerance page](#). Subsequently, Global O-Ring and Seal defines the quality acceptance criteria of all O-rings to be in accordance with **ISO 3601-3 Grade N** which classifies surface imperfections and specifies maximum acceptable limits for these imperfections. Stricter tolerance and inspection requirements can be achieved upon customer request.

### ISO 3601-1: Dimensional Tolerances

ISO 3601-1 states two classes of O-rings: **Class A** and **Class B**. Class A O-rings have equivalent tolerances to those used in AS568, which are tighter than the tolerances for Class B O-rings, and are suitable for industrial or aerospace applications when the application or the housing require tighter tolerances. Class B O-rings have slightly wider tolerances and are suitable for general-purpose applications.

### ISO 3601-3: Quality Acceptance Criteria

ISO 3601-3 was originally developed for general-purpose O-rings, but over the years this standard has been revised and refined to include three grades (**N, S, CS**) of defects depending upon the application.

**Grade N:** The standard of acceptance for general-purpose O-rings.

**Grade S:** Quality requirements for optimum performance industrial applications and aerospace applications.

**Grade CS:** Special and critical sealing applications, such as certain aerospace applications and critical oxygen service applications.

Examples of surface imperfections characterized by this standard include flash, offset, parting-line projection, back rind, excessive trimming, flow marks, non-fills, and indentations.