



BSI Standards Publication

Fluid power systems — O-rings

Part 2: Housing dimensions for general applications

National foreword

This British Standard is the UK implementation of ISO 3601-2:2016. It supersedes BS ISO 3601-2:2008 which is withdrawn.

BS ISO 3601-1:2012 incorporates O-ring sizes corresponding to those previously given in the size tables for general industrial applications. BS ISO 3601-2 gives specifications for the housing sizes for these O-rings.

The conversion of a range of O-rings, which were originally designed for fractional inch housings, to metric (mm) housings has proved to be a difficult task.

The National Foreword to the 2008 edition highlighted some inconsistencies in the in the standard. In the opinion of the UK Committee these have still not been resolved in this minor revision. Potential users are advised to apply this standard with care and, when doing so, consider the following issues identified by the UK Committee.

- Some of the symbols are defined inconsistently and this could lead to confusion
- Table 2 for bores and Table 4 for rods give inconvenient housing diameters for bore and rod sizes. Greater use of the stretch criteria (Subclause 6.1.1.1) and diametral interference criteria (Subclause 6.1.2.1) could have enabled more convenient metric (mm) dimensions, particularly for static applications. Table 3 for bores and Table 5 for rods do give a limited range of housings for whole number bore and rod sizes. It is planned to expand the number of whole number sizes given in Tables 3 and 5 in a forthcoming major revision of the standard.
- Neither Subclause 6.1.2 nor the calculation example for rod applications (Annex B.3) fully reflect the rules used in the calculations for the housing sizes for rods in Table 4. Particular care should be taken when applying Subclause 6.1.2.3.

The UK participation in its preparation was entrusted to Technical Committee MCE/11, Fluid seals and their housings.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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