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BSI Standards Publication

Specification for hose couplings for petrol, oil and lubricants — High pressure couplings

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National foreword

This Published Document is the UK implementation of CEN/TS 16650:2014. It supersedes BS 2464-2:1969 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee PRI/66, Rubber and plastics tubing, hoses and hose assemblies.

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

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Specification for hose couplings for petrol, oil and lubricants - High pressure couplings

Spécifications pour les raccords de tuyaux pour essence, huile et lubrifiants - Raccords haute pression

Spezifikation für Schlauchkupplungen für Benzin, Öl und Schmierstoffe - Hochdruckkupplungen

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Foreword

This document (CEN/TS 16650:2014) has been prepared by Technical Committee CEN/TC 218 “Rubber and plastics hoses and hose assemblies”, the secretariat of which is held by BSI.

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1 Scope

This Technical Specification specifies requirements for couplings of 2 in (50,8 mm), 2½ in (63,5 mm), 3 in (76,2 mm) and 4 in (101,6 mm) nominal sizes with ribbed tails and hexagons for use at pressures not exceeding 1 550 kN/m^2 (225 lbf/in^2). For assembly of coupling, see Figure 1.

This document is applicable to couplings which have been designed primarily for aircraft refuelling purposes, but they may also be used for other general purposes.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 1982:1998, *Copper and copper alloys — Ingots and castings*

EN ISO 228-1, *Pipe threads where pressure-tight joints are not made on the threads - Part 1: Dimensions, tolerances and designation (ISO 228-1)*

EN ISO 228-2, *Pipe threads where pressure-tight joints are not made on the threads - Part 2: Verification by means of limit gauges (ISO 228-2)*

BS 1936-1, *Undercuts and runouts for screw threads. Inch screw threads*

BS 1936-2, *Undercuts and runouts for screw threads. Metric screw threads*

BS 2751, *General purpose acrylonitrile-butadiene rubber compounds. Specification*

BS 3643-2:2007, *ISO metric screw threads — Specification for selected limits of size*

3 Information to be supplied by the purchaser

It is essential that the purchaser states in the enquiry and order, the form of screw thread required (see Clause 8).

4 Designation of sizes of couplings

The size by which the coupling is designated shall be the nominal bore of the hose with which it is to be used.

5 Materials

The material used in the manufacture of the couplings shall be as follows:

a) Gunmetal castings conforming to Specification CC 491 K of EN 1982:1998

b) Brass castings conforming to Specification CC 750 S of EN 1982:1998

6 Dimensions

The dimensions of couplings and union nuts shall conform to those shown on Figure 2, Figure 3 and Figure 4 and in Table 1, Table 2 and Table 3.

NOTE The illustrations in this Technical Specification are diagrammatic only, and are solely for the purpose of indicating where the specified dimensions apply.