

Cover Sheeted DEF STAN

No. TSC47-022™

END FITTINGS FOR HOSE ASSEMBLIES METRIC



RATIONALE

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 **Documents**
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FOREWORD

REVISION NOTE

This Defence Standard was amended to add the following administrative changes with no change to the issue status.

- Organisation addresses updated where necessary

HISTORICAL RECORD

Not applicable.

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1. This Defence Standard specifies the requirements, for Ministry of Defence use, relating to end fittings for flexible hose assemblies (except pitot/static), for aircraft incorporating metric swaged pipe couplings.
2. This Standard is the definitive specification for these items for Ministry of Defence purposes.
3. This Standard has been prepared because there is no suitable national or any other standard available which is acceptable to the Ministry of Defence.
4. This Standard has been agreed by all authorities concerned who are to implement it from its date of issue.
5. If this Standard should be found unsuitable for a particular requirement the Director of Standardization shall be informed of the circumstances. Any enquiries regarding this Standard in relation to an invitation to tender or a contract in which it is invoked should be addressed to the Quality Assurance Authority named in that invitation to tender or contract.

1. SCOPE

- a. This Standard covers the basic dimensional and manufacturing requirements for end fittings for flexible hose assemblies (except pitot/static) which are required to be connected to aircraft fluid pipe systems incorporating the metric swaged pipe coupling (AS 43020 and AS 43090 series*).
- b. It also covers the requirements for the relationship of the end fitting sizes to the hose sizes, and specifies the maximum working pressures for each resultant hose assembly size.

2. RELATED DOCUMENTS

- a. Reference is made in this Standard to:

AS 43020	'Swaged couplings - typical joints (steel)'
AS 43044	'Nut union, thrust wire, female (steel)'
AS 43045	'Thrust wire, nut union, female (steel)'
* AS 43090	'Swaged couplings - typical joints (aluminium alloy)'
AS 46730	'Nut union, thrust wire, male (steel)'
AS 46731	'Nut union, thrust wire, male, 5.0 mm size (steel)'
AS 46732	'Thrust wire, nut union, male (steel)'
BS 1134	'Method for the assessment of surface texture'
BS 3643	'ISO metric screw threads'
BS 3730	'Methods for the assessment of departures from roundness'
BS M35	'Magnetic particle flaw detection of materials and components'
BS M39	'Penetrant inspection of aerospace materials and components'
BS S95	'1½ per cent nickel-chromium - molybdenum steel'
BS S97	'2½ per cent nickel-chromium-molybdenum steel (65/75 tonf/in²)'
BS S114	'Manganese - molybdenum steel'
BS S117	'1 per cent chromium steel'

* In course of preparation

2. a. (contd)

BS S142	'1 per cent chromium-molybdenum steel'
BS S143	'Chromium-nickel-copper-molybdenum corrosion-resisting steel (930-1080 MPa)'
BS S144	'Chromium-nickel-copper-molybdenum corrosion-resisting steel (1130-1330 MPa)'
BS S154	'2½ per cent nickel-chromium-molybdenum steel etc '(880-1080 MPa)'
DEF STAN 47-8	'Rubber hose assemblies for low pressure fuel systems'
DEF STAN 47-9	'Rubber hose assemblies (flame resistant etc) for low pressure fuel systems'
DEF STAN 47-12	'PTFE hose assemblies for medium and high pressure fluid systems in aircraft'
DTD 904	'Cadmium plating'
PAN 4045	'Thrust wire (swaged pipe couplings)'
PAN 4046	'Nut, thrust wire (female) (swaged pipe couplings)'
PAN 4048	'Thrust wire (swaged pipe couplings)'
PAN 4050	'Nut, thrust wire (male) (swaged pipe couplings)'
PAN 4051	'Nut, thrust wire (male) - 5.0 mm size (swaged pipe couplings)'

b. Reference in this Standard to any related document means, in any tender or contract, the edition current at the date of such tender or contract unless a specific issue is indicated.

c. The issuing authorities for AS, DTD, and PAN documents are as follows:

AS:	SAE ITC 1 York Street London W1U 6PA United Kingdom
DTD:	UK Defence Standardization Kentigern House, Room 1138 65 Brown Street GLASGOW G2 8EX
PAN:	Standards Distribution Warton Aerodrome Warton Preston PR4 1AX