

1.0 INTRODUCTION

This specification includes the standard requirements for -

- Identification
- Testing
- Inspection
- Documentation

Please ensure all requirements of this specification is complied with.

2.0 SPECIFICATIONS TABLE

Table 1

MATERIAL SPECIFICATIONS	
STANDARD	DEFENCE STANDARD 02-747 PART 3, ISSUE 3
CLASSIFICATION	NICKEL ALUMINIUM BRONZE CASTINGS AND INGOTS

Table 2

MATERIAL SPECIFICATIONS	
STANDARD	DEFENCE STANDARD 02-833 PART 2, ISSUE 3
CLASSIFICATION	NICKEL ALUMINIUM BRONZE FORGINGS, FORGING STOCK, RODS AND SECTIONS.

Table 3 – Relates only to defence standard 02-747 Part 3, Issue 3

MATERIAL CONDITIONS, TESTING & INSPECTION	
TENSILE TESTING	BS EN ISO 6892-1 IN ACCORDANCE BS EN 1982
NDE	SEE SECTION 4.5 OF STANDARD

3.0 MECHANICAL PROPERTY REQUIREMENTS

(Reference - DEFENCE STANDARD 02-747 PART 3, ISSUE 3, Section 3, Table 3)

4.0 CHEMICAL COMPOSITION

4.1 Ingots

(Reference - DEFENCE STANDARD 02-747 PART 3, ISSUE 3, Section 1, Table 1)

4.2 Castings

(Reference - DEFENCE STANDARD 02-747 PART 3, ISSUE 3, Section 1, Table 2)

5.0 IDENTIFICATION OF CASTINGS

(Reference - DEFENCE STANDARD 02-747 PART 3, ISSUE 3, Section 6.2)

Castings should be permanently marked to include the following information for the duration of its service life:

- 1) Pattern or Ship's Identity Number plus 02-747 Pt3
- 2) Class of casting, i.e. CI, CII, CIII
- 3) The legend 'NAB'
- 4) The unique cast number which can be related to the quality control documentation

6.0 SUPPLY SPECIFICATIONS

- 6.1 The material shall be supplied in accordance with the specifications detailed in LFH Fluid Control Table 1 or Table 2 and subsequent sections.
- 6.2 Where LFH Fluid Control Table 1 or Table 2 lists approved alternatives, then an approved concession for the supply of such is not required.
- 6.3 These specifications only apply to materials for which this document is referenced, and the document shall be listed on the LFH Fluid Control purchase order.
- 6.4 This specification document does not negate, supersede, or otherwise detract from the requirements specified in the standards listed in LFH Fluid Control Table 1 or Table 2 or standards therein.

7.0 DIMENSIONS

- 7.1 Where an LFH Fluid Control drawing is specified, supply dimensions shall be per drawing.
- 7.2 Where no drawing is specified, i.e., for raw stock material, the LFH Fluid Control purchase order shall contain the part description and this part description shall contain the dimensional information for the material to be supplied.

8.0 SUBSTITUTIONS

- 8.1 Under exceptional circumstances, LFH Fluid Control will consider a near equivalent substitution to the material stated in LFH Fluid Control Table 1 or Table 2.

	<p style="text-align: center;">TECHNICAL SPECIFICATION BN MATERIAL</p>	<p>Document Number: TS0185 REV 03 Date: 07/10/2025 PAGE 3 of 4</p>
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8.2 Under exceptional circumstances, where raw stock material of the dimensions requested is not readily available, LFH Fluid Control will consider an alternative near size.

8.3 Under the above circumstances, the supplier must seek concession approval.

9.0 CONCESSION

- 9.1 All requests for concession approval must be submitted to LFH Fluid Control, prior to supply, via email address: procurement@lfhfluidcontrol.com
- 9.2 Where concession approval is granted, the supplier must supply a copy of the concession paperwork with the goods, clearly marking the item/s that are under concession.
- 9.3 Where a substitution is supplied, or where the supplied material is otherwise identified as non-complaint to the purchase order, under no circumstances will goods be receipted into LFH Fluid Control without an accompanying approved concession being present.

10.0 SUPPLY DOCUMENTATION

- 10.1 The purchase order will contain a reference to a Supplier Documentation Requirements List (SDRL). This can be accessed via a link on the purchase order which will take you to the LFH TS & SDRL PORTAL, allowing access to view the relevant SDRL.
- 10.2 Supply to the specified SDRL is compulsory and acceptance of receipt of goods at LFH Fluid Control will be dependent on these requirements being met, amongst other acceptance criteria.

11.0 MARKINGS

- 11.1 Where the purchase order specifies a part number, this part number must be clearly marked on the supplied materials. The packaging and marking must be of a manner that allows easy identification of individual materials to the LFH Fluid Control part numbers.
- 11.2 Where no part number is specified, the LFH Fluid Control purchase order number and line number must be clearly marked on the supplied materials. The packaging and marking must be of a manner that allows easy identification of individual materials to the LFH Fluid Control purchase order number and line numbers.
- 11.3 The SDRL stipulates further traceability marking requirements.
- 11.4 All such markings should be semi-permanent, able to withstand transport and storage, and not detrimental to the dimensions or finish of the supplied materials.

12.0 REQUIRED APPROVALS:

Design & Engineering Manager	Approvals on File
Data Manager	Approvals on File

13.0 REVISION HISTORY

Revision	Date of Release	Author	Summary of Change
00	30/05/2023	BM	Initial Release
01	15/08/2023	KL	Section 4.0 added
02	20/09/2023	GD	Added DEFENCE STANDARD 02-833 PART PART 2, ISSUE 3
03	07/10/2025	JS	Added Section 1.0 INTRODUCTION. Properties table removed as they are included in the standard that is referred to.