



Royal Canadian Mounted Police
Gendarmerie royale du Canada

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Specification

Hardware, Equipment, Sam Browne

This document has 21 pages including the drawings.

This document was created in English.

The document is available in English and French.

English/Anglais
Français/French

The photograph on this page is for reference only.

RCMP VIEWING SAMPLE

A viewing sample, when available, will be supplied to the successful tenderer.

This will be used for the guidance of the manufacturer in all factors not covered by this specification or referred to therein. Variation from the specification may appear in the sample in which case the specification shall govern.

It may be obtained from:

Royal Canadian Mounted Police
ATTN: Uniform & Equipment Program
(440 Coventry Road, Warehouse Building)
1200 Vanier Parkway
Ottawa, Ontario
K1A 0R2

It will be sent “prepaid” and is to be returned “prepaid”.

The viewing sample shall be returned to the RCMP in the same condition as received by the manufacturer. Lost or damaged viewing samples shall be replaced by an identical item or the RCMP shall be reimbursed for the cost of an acceptable replacement.

SPECIFICATION

HARDWARE, EQUIPMENT, SAM BROWNE

1. Definition

- 1.1 This specification shall govern the manufacture and inspection of Hardware, Equipment, Sam Browne.
- 1.2 This specification, viewing sample, drawing or other information issued in connection therewith, may only be used for specific enquiries, tenders, or orders placed on behalf of the Royal Canadian Mounted Police.
- 1.3 This specification supersedes all previous specifications for Hardware, Equipment, Sam Browne.

2. Applicable Specifications

- 2.1 The following publications are applicable to this specification and to the issues in effect on the date of the invitation to tender, unless otherwise specified.
- 2.2 ASTM, B584-13 Standard Specification for Copper Alloy Sand Castings for General Applications.
- 2.3 ASTM, B86-64 Standard Specification for Zinc and Zinc Aluminum Alloy Foundry and Die Castings.

3. General Requirements

- 3.1 The article or material covered by this specification shall be free from imperfections or blemishes such as may affect its appearance or serviceability. In all particulars not covered by this specification or contract documents, production shall be equivalent in all respects to the viewing sample.
- 3.2 **Design** - The hardware shall be designed in accordance with the drawings attached and forming part of this specification, and the viewing sample.
- 3.3 In the event of any inconsistency in contract documents, specification, drawing, or viewing sample, the aforementioned shall prevail in the following order:

- (i) Contract
- (ii) Specification
- (iii) Drawing
- (iv) Viewing sample

4. **Detail Requirements**

4.1 **Material** - The items listed in para. 4.3 below shall be made of brass, conforming to the following composition requirements when tested to ASTM B584-13. Items No. 1 to 8 may be sand cast yellow brass and items No. 9 to 11 may be free turning brass rod.

4.1.1 **Composition Requirements**

	<u>Min %</u>	<u>Max %</u>
Copper	60	65
Lead	0.75	1.5
Tin	0.05	1.5
Zinc	32	38.75

Certification of Compliance required to show the alloy content.

4.1.2 **Alternative Alloy Composition**

An alternative alloy may be substituted for Items No. 5, 6 and 10. These items may be made of zinc alloy for pressure die casting, as per Alloy No. 3, ASTM B86-64.

Composition Requirements

	<u>Min %</u>	<u>Max %</u>
Copper	---	0.25 max.
Aluminium	3.5	4.3
Magnesium	0.02	0.05
Iron Max.	---	0.100
Lead Max.	---	0.005
Cadmium Max.	---	0.004
Tin Max.	---	0.003
Zinc (99.99 + % purity)	Remainder	

Certification of Compliance required to show the alloy content.

4.1.3 **Alternative Brass Alloy** - As an alternative to the brass alloy composition requirement outlined above, the following brass material composition may also be used:

Content	Minimum %	Maximum %
Copper	80	90
Zinc, percent	10	20

Certification of Compliance required to show the alloy content.

4.2 **Dimensions** - The dimensions shall be in accordance with the item drawings and subject to a tolerance of +/- 0.75 mm.

4.3 **Construction** - The hardware shall be made of material in accordance with para. 4.1 and constructed and assembled in accordance with the following item drawing and viewing sample:

- Item No. 1 Buckle, Double Prong,
- Item No. 2 Claw, Buckle, Double Prong
- Item No. 3 Buckle, Loose Roller, Single Prong
- Item No. 4 Buckle, Single Prong
- Item No. 5 "D" Ring, Large
- Item No. 6 "D" Ring, Small
- Item No. 7 Swivel, Snap
- Item No. 8 Hook, Sword
- Item No. 9 Stud, Round Head, Rivet
- Item No. 10 Stud, Round Head, Flange
- Item No. 11 Stud, Flat Head, Flange
- Item No. 12 Fastener, Snap
- Item No. 13 Fastener, Snap, "Dot"

All items must be functional with RCMP Equipment Sam Browne Belts and accessories, and with each other.

4.4 **Finish** - Shall be electroplated in accordance with the best commercial standards. The hardware shall be adequately cleaned and polished prior to plating and have an acid-nickel plating. A final electroplated hard acid 18 karat gold is then applied which shall be of the proper shade and shall be not less than 0.2 µm thickness. There shall be no cut through, shaded, peeled or blistered plating, and it shall match the colour of the viewing sample. The Claw, Buckle, Double

Prong, Item No. 2 and the snap fasteners, Items No. 12 and 13, shall be unplated and left in their natural brass state. The button for both snap fasteners shall be bright brass with a hard lacquer finish.

5. **Quality Assurance Provisions**

- 5.1 **Responsibility for Inspection** - Unless otherwise stipulated in the contract, it is the prime contractor's responsibility to satisfy the RCMP, Uniform & Equipment Program that the material and services being supplied conform to this specification. This may be accomplished by performing the tests specified in this specification or by demonstrating to the satisfaction of the RCMP, Uniform & Equipment Program that conformity to this specification of manufacturing processes is assured. The contractor may use his own facilities or any commercial testing establishment acceptable to the RCMP, Uniform & Equipment Program.
- 5.2 The RCMP, Uniform & Equipment Program reserves the right to perform any inspection considered necessary to ensure the material and services conform to the specified requirements. For the purpose of inspection, a portion of each delivery not exceeding two percent or two out of any number delivered under 100 may be put to tests that could destroy the articles. If found to be inferior or not in accordance with this specification, all articles so destroyed shall be replaced by others of proper quality and pattern at the expense of the contractor. The entire delivery may also be rejected if it is found that articles previously rejected due to non-repairable defects are redelivered for inspection.
- 5.3 The contractor will be promptly notified when any articles are not accepted and such articles will be returned at the contractor's risk and expense.

Appendix A

Certification and Evaluation Criteria

Appendix A contains the definitions for certificate of compliance and test reports that are required for this specification. The tables of requirements shall be used by the manufacturer and RCMP Uniform and Equipment Program to ensure proper documentation is received and meets the requirements outlined in this specification.

Certification of compliance: A Certificate of Compliance is defined, for this document, as a signed and dated certification to confirm that a specified component (e.g. slide fastener, hook and loop, webbing, thread etc.) or requirement adheres to the specification. The certification must be prepared, signed and dated by an official representative of the component manufacturer using company letterhead making reference to the specification number and paragraph number. It must specifically address the component or requirement and compliance can be shown by referring to a part number, by providing the component values, by providing a manufacturing data sheet to show technical compliance or by a description stating compliance to the requirement. In-house testing is acceptable to show compliance. Copying the specification word for word is not acceptable.

A separate certificate of compliance is required for each individual component or requirement. Multiple components supplied by the same component manufacturer may be submitted on one certificate of compliance as long as the paragraph numbers and components are clearly identified. With this document, the bidder certifies that the product for which the certificate of compliance is issued is the same product used in the bid submission, or in the pre-award samples or in the pre-production samples, or in the production units as applicable.

The Bidder is to note that copies of invoices, purchase orders, packing slips and certificates of compliance for products or components that are not manufactured by the certifier are not suitable for use as a certificate of compliance.

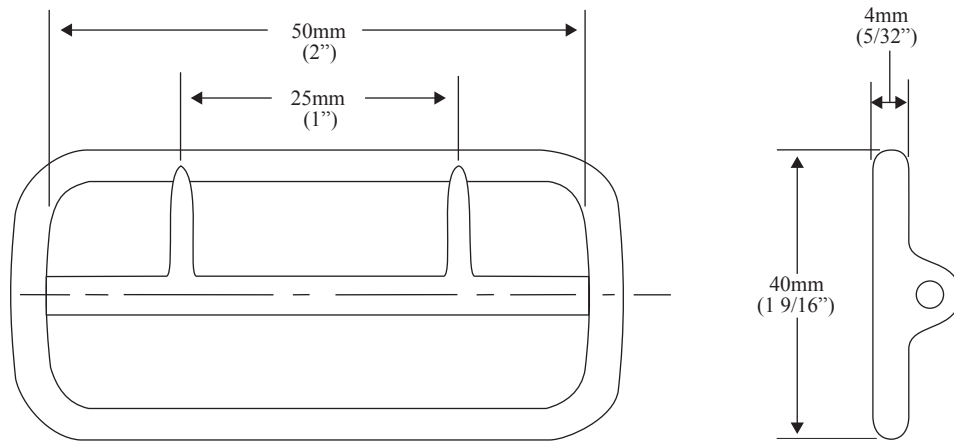
Test Report: Test report documents signed and dated by an independent, third-party accredited laboratory acceptable to the RCMP shall include the test method, test conditions and test results performed to verify requirements as specified in this specification.

Certification & Evaluation Criteria

Para. Title/Test	Certification of Compliance	Test Report	Pass/Fail
Material Composition (Paras. 4.1.1 – 4.1.3)	Required for all alloy compositions with each item listed accordingly		

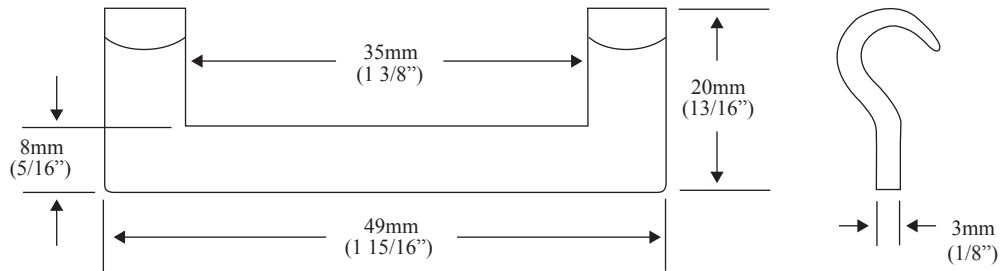
ITEM 1

Buckle, Double Prong



ITEM 2

CLAW, Buckle, Double Prong



THIS ITEM IS NOT GOLD PLATED

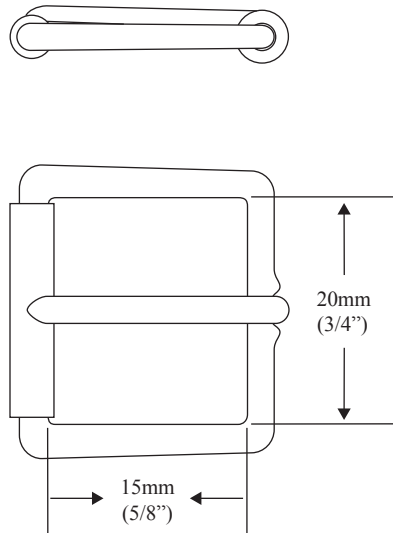
NOT TO SCALE

Hardware, Equipment, Sam Browne

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ITEM 3

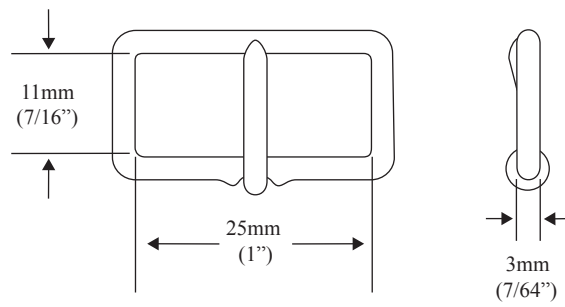
BUCKLE, Loose Roller, Single Prong



NOT TO SCALE

ITEM 4

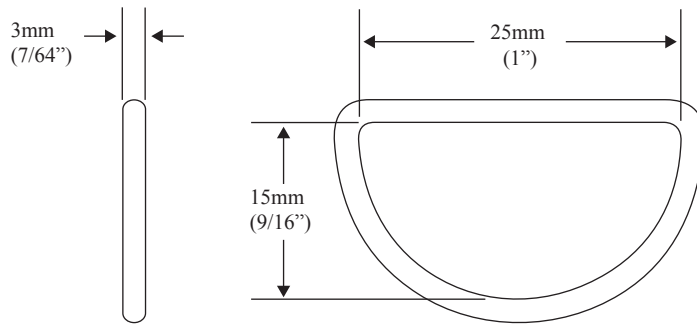
BUCKLE, Single Prong



NOT TO SCALE

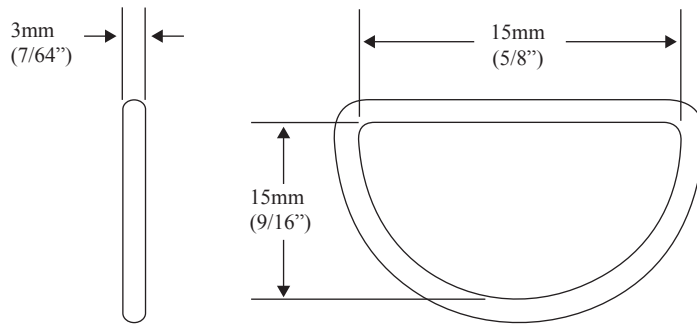
ITEM 5

“D” RING, LARGE



ITEM 6

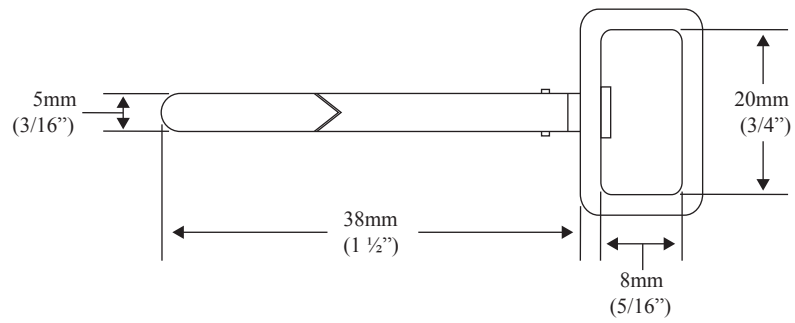
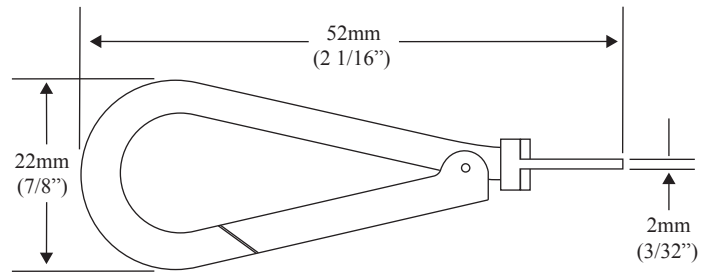
“D” RING, SMALL



NOT TO SCALE

ITEM 7

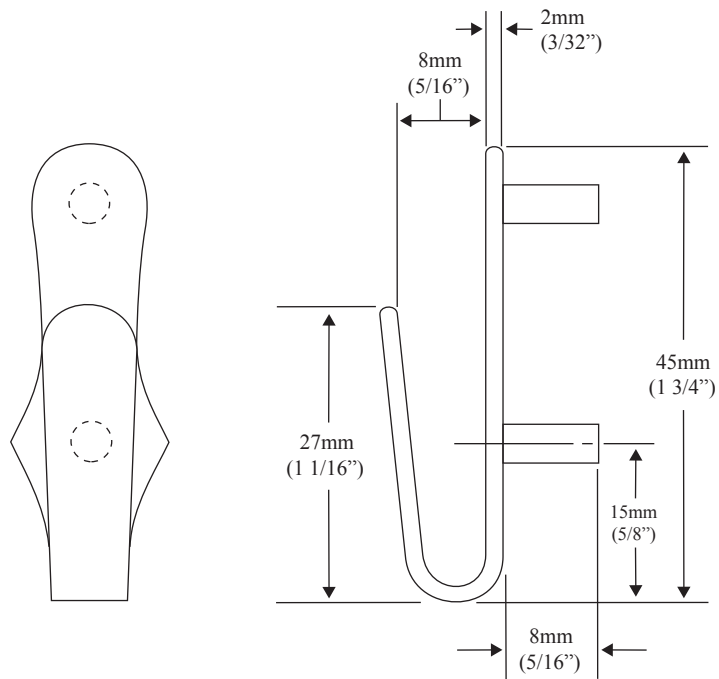
SNAP SWIVEL



NOT TO SCALE

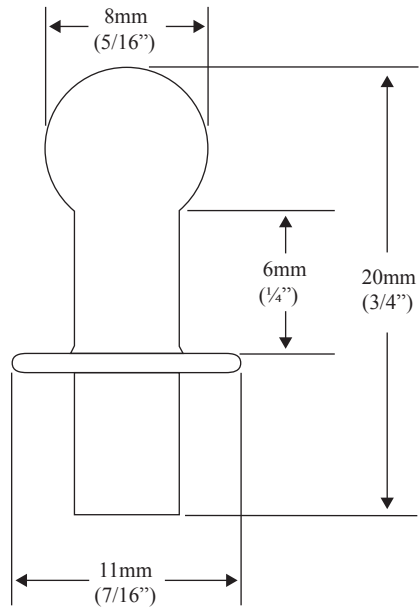
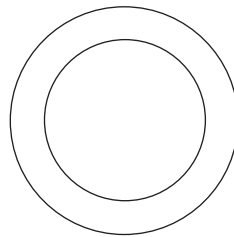
ITEM 8

HOOK, SWORD



ITEM 9

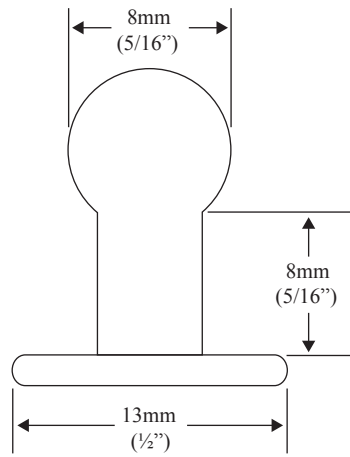
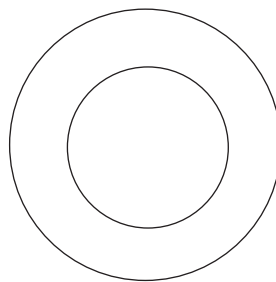
STUD, ROUNDHEAD RIVET



NOT TO SCALE

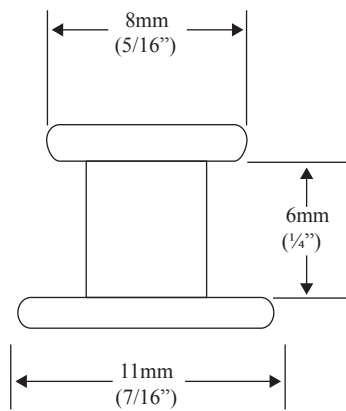
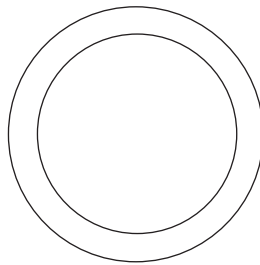
ITEM 10

STUD, ROUNDHEAD



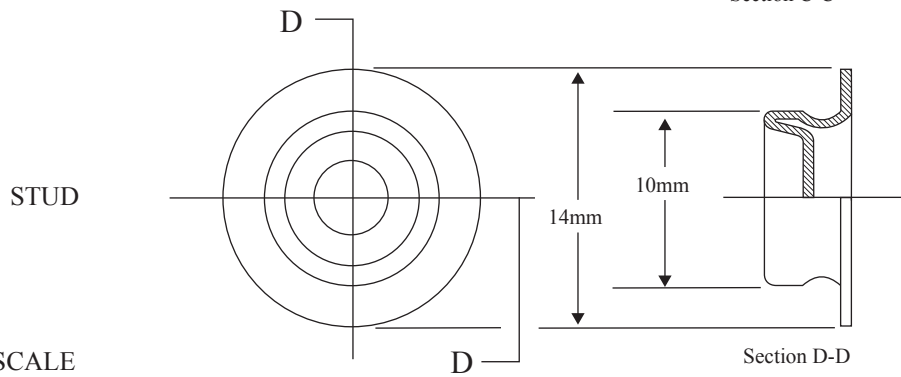
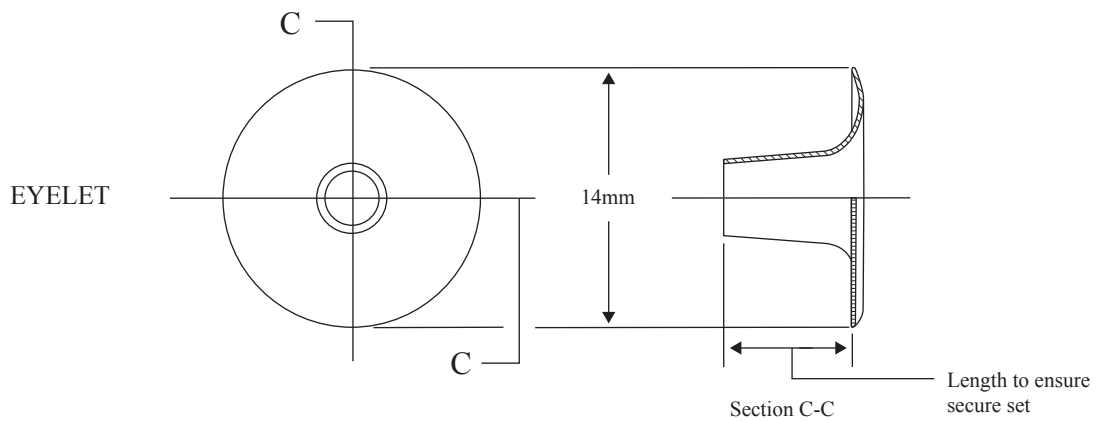
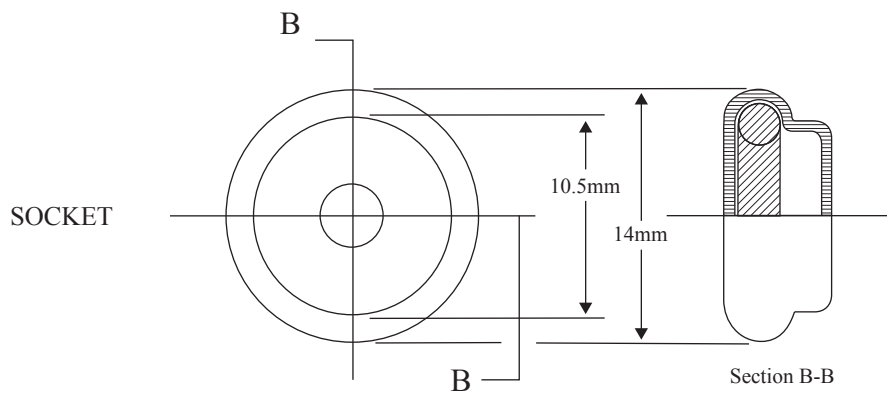
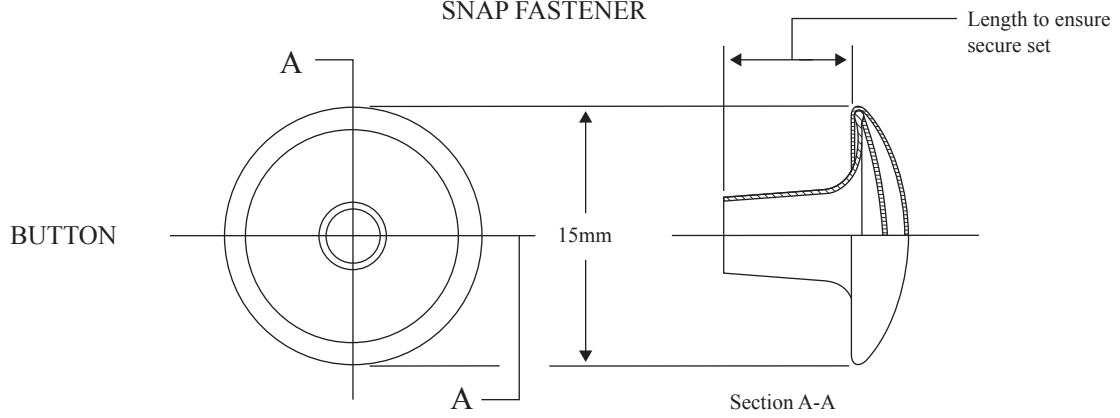
ITEM 11

STUD, FLATHEAD FLANGE



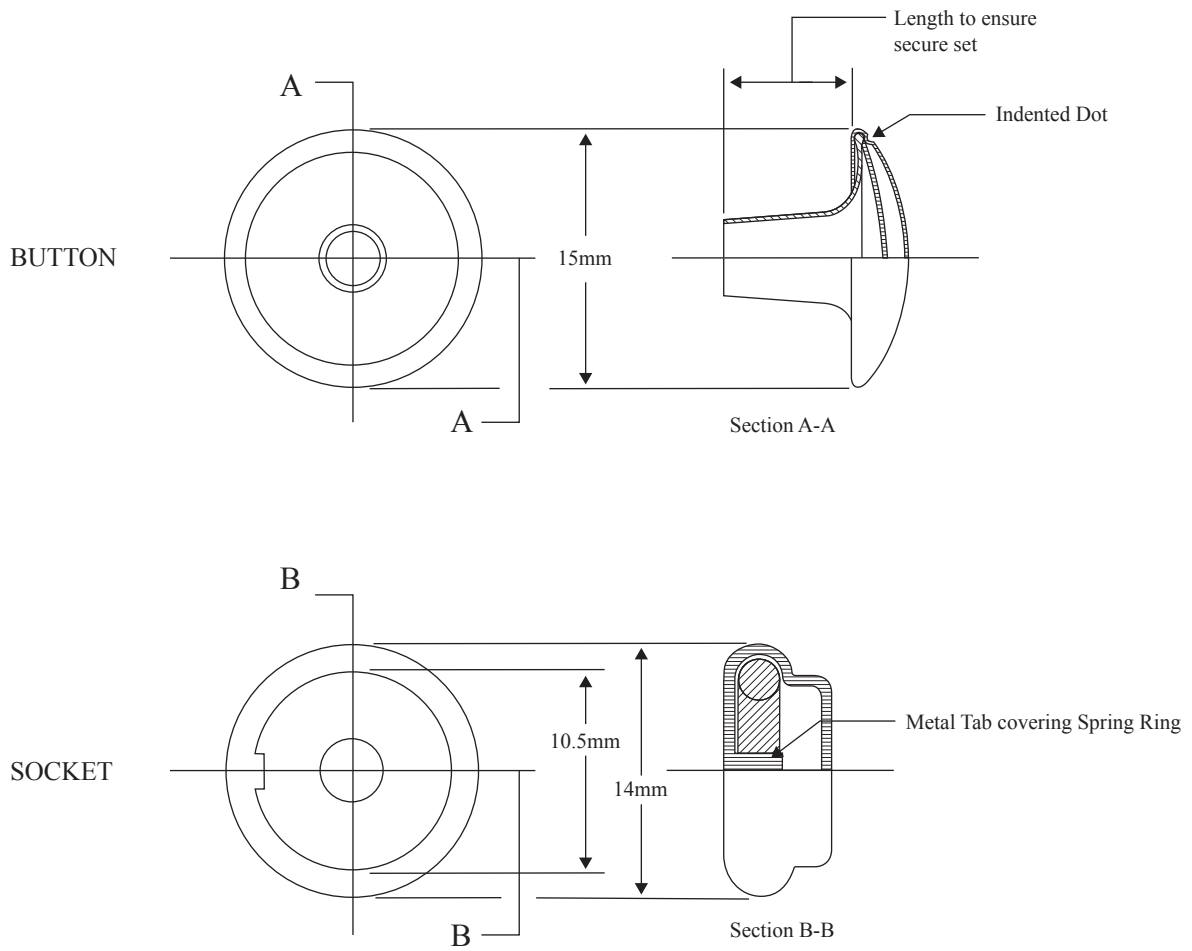
ITEM 12

SNAP FASTENER



NOT TO SCALE

ITEM 13
SNAP FASTENER
DOT Style



NOT TO SCALE