Assembly Instructions for stopping plugs: 487/RFID

HAWKE International

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Temperature Range:
Nitrile O-Ring: - 60°C to +80°C
Silicone O-Ring fitted: - 60°C to +160°C

NOTE:
The overall temperature may be limited by the RFID used.

Product Materials:
Brass, Nickel Plated Brass and Stainless Steel
(Aluminium Group II Only)
O-Ring: Nitrile / Silicone

Certification Details

Stopping Plug Type: 487/RFID
Exdb I Mb / Exeb I Mb / Exdb IIC Gb / Exeb IIC Gb / Extb IIIC Db
Baseefa11ATEX0149X Ex I M2 / II 2 GD IP66 CE
IECEx BAS11.0071X
IEx No: 15.0291X
EAC Ex TC RU C-GB.AA87.B.00430
c CSA us No: 2700364
Class I Zone 1 AExd IIC Gb, AExe IIC Gb, Zone 21 AExtb IIIC Db
Class I Groups ABCD, Class II Groups EFG, Class III

Fig. 1

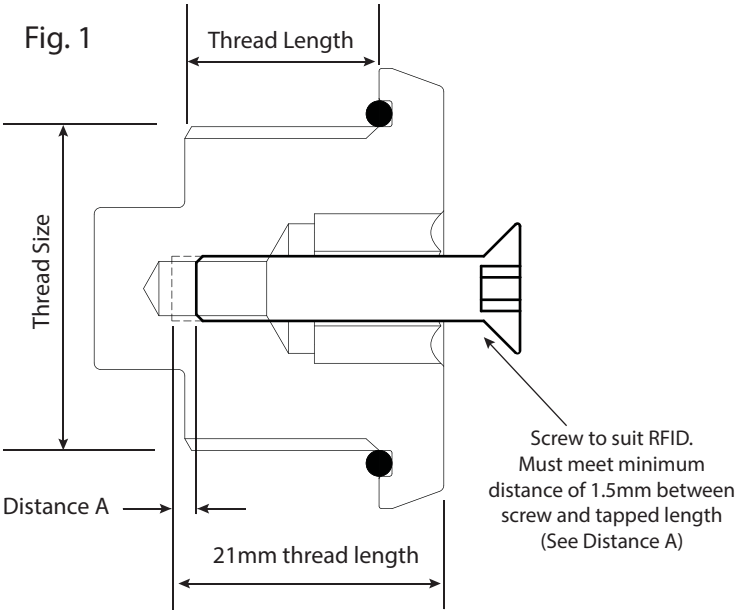
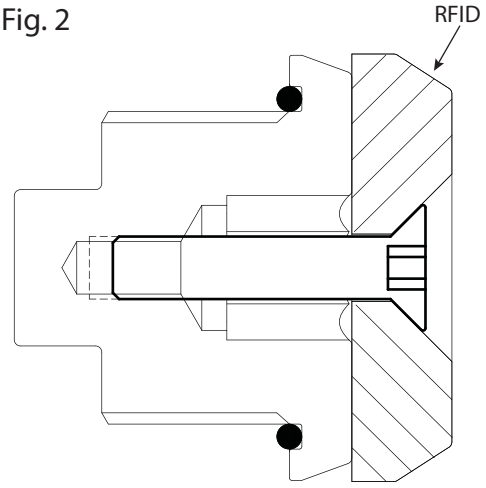


Fig. 2



NOTE: The standard thread pitch is 1.5mm pitch.

SPECIFIC CONDITIONS OF USE

For Flameproof Applications

Note: This stopping plug must not be used with a thread adaptor / reducer in flameproof applications.

1. Ensure the stopping plug thread form is compatible with the enclosure thread.
2. Ensure that the area around the enclosure entry thread is clean and flat and the entry thread is square to the enclosure face.
3. Insert the stopping plug from the outside of the enclosure and fully tighten using the correct size of allen key.
4. Fit the screw through through the hole in the RFID disc and apply Loxeal 55.03 thread lock or equivalent to the first three threads of the screw. Locate the certified RFID disc and screw as shown in Fig. 2 and whilst slowly turning the RFID disc, tighten the screw with an Allen key until the RFID disc is just free to rotate. This is sufficient to retain the disc without causing damage.

PLUG THREAD DETAILS

Thread Size Metric	Outside Diameter	Allen Key Size	Thread Length
M20	26.5	10	15.0
M25	34.0	10	15.0

NOTE: RFID tag dimensions may be larger than those shown above for the plug.

For Increased Safety Enclosures

For Threaded Entries

1. Ensure the stopping plug thread is compatible with the enclosure thread.
2. Ensure that the area around the enclosure entry thread is clean and flat and the entry thread is square to the enclosure face.
3. Insert the stopping plug from the outside of the enclosure and fully tighten using the correct size Allen key.
4. Fit the screw through through the hole in the RFID disc and apply Loxeal 55.03 thread lock or equivalent to the first three threads of the screw. Locate the certified RFID disc and screw as shown in Fig. 2 and whilst slowly turning the RFID disc, tighten the screw with an Allen key until the RFID disc is just free to rotate. This is sufficient to retain the disc without causing damage.

For Clearance Entries

1. If the enclosure contains a clearance hole entry, the maximum clearance permitted between the enclosure entry hole and the stopping plug nominal thread size is 0.7mm.
2. Ensure that the area around the enclosure clearance hole is clean and flat.
3. Insert the stopping plug into the clearance hole from the outside of the enclosure.
4. Fit a locknut of the same thread type and size onto the stopping plug thread within the enclosure and tighten fully using a suitable Allen key.
5. Fit the screw through through the hole in the RFID disc and apply Loxeal 55.03 thread lock or equivalent to the first three threads of the screw. Locate the certified RFID disc and screw as shown in Fig. 2 and whilst slowly turning the RFID disc, tighten the screw with an Allen key until the RFID disc is just free to rotate. This is sufficient to retain the disc without causing damage.

SPECIAL CONDITIONS FOR SAFE USE

1. The maximum operating temperature range of the stopping plug when fitted with a nitrile O-ring is -60°C to +80°C.
2. The maximum operating temperature range of the stopping plug when fitted with a silicone O-ring is -60°C to +160°C.
3. The maximum operating temperature range of the stopping plug without an O-ring fitted is -60°C to +200°C.
4. When the stopping plug is fitted in plain holes in increased safety or dust protected enclosures, the sealing face of the enclosure is to be smooth and the hole no larger than 0.7mm above the major diameter of the male thread on the stopping plug. The stopping plug is to be secured with a locknut and optional locking washer.
5. When fitted in threaded holes, the sealing face of the enclosure is to be smooth, the threaded hole perpendicular to the wall of the enclosure and the thread medium fit.
6. When the stopping plugs are used for increased safety or dust protection and the O-ring is not fitted, the user is to ensure that the enclosure and stopping plug interface is suitably sealed, in accordance with EN 60079-14, to maintain the ingress protection rating of the associated enclosure and protection concept.

EU Declaration of Conformity in accordance with European Directive 2014/34/EU
Manufacturer: Hawke International
Address: Oxford Street West, Ashton-under-Lyne, OL7 0NA, United Kingdom

Equipment: Range of Group I and II Stopping Plugs Type: 487/RFID

Provisions of the Directive fulfilled by the Equipment:
Group I Category 1M2 Exeb I Mb, Exdb I Mb – IP66 (This excludes Aluminium)
Group II Category 2GD Exeb IIC Gb, Exdb IIC Gb, Extb IIIC Db – IP66

Notified Body for EU-Type Examination: SGS – Baseefa Certification Buxton

EU-type Examination Certificate: Baseefa 11ATEX0149X

Notified Body for production: SGS - Baseefa 1180 Buxton UK

Harmonised Standards used:
EN 60079-0:2012 +A11:2013, EN60079-1:2014, EN60079-7:2015, EN60079-31:2014.

On behalf of the above named company, I declare that, on the date the equipment accompanied by this declaration is placed on the market, the equipment conforms with all technical and regulatory requirements of the above listed directives.

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A. Tindall
Technical Manager