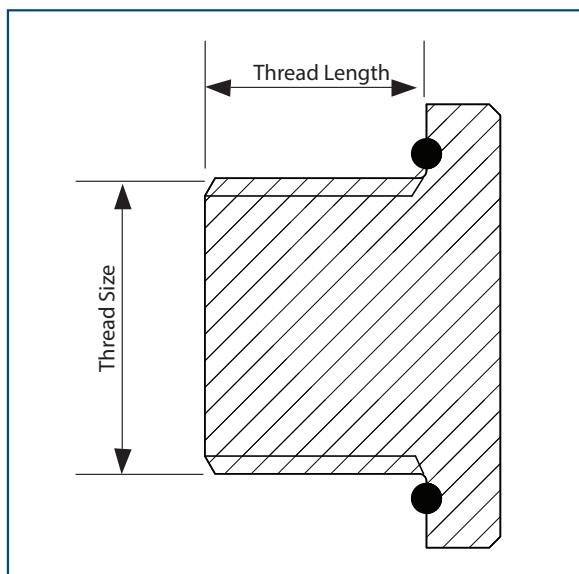


# Assembly Instructions for stopping plug: 390

Operating temperature range -60°C +160°C



#### Product Materials:

Brass, Nickel Plated Brass and Stainless Steel  
O-Ring: Silicone

#### NOTE:

The standard thread pitch upto and including the M75 size is 1.5mm. On larger sizes, the standard pitch size is 2mm. The 1.5mm pitch can be supplied on these larger sizes to special order.

#### Certification Details

Stopping Plug Type: 390  
Exeb I Mb, Exeb IIC Gb, Extb IIIC Db  
Baseefa 11ATEX0157X (Ex) I M2 / II 2 GD IP66 CE  
IECEx BAS11.0079X  
IEx No: 15.0291X  
EAC (Ex) TC RU C-GB.AA87.B.00430  
c CSA us No: 2700364  
Class I Zone 1 AExeb IIC Gb,  
Zone 21 AExtb IIIC Db IP66  
(Optional: Class I Div 2 Groups ABCD, Class II Div 2 Groups EFG, Class III)

#### TYPICAL DIMENSIONS

Thread Size Metric	Across Flats	Across Corners	Thread Length
M16	24.0	26.5	15.0
M20	30.0	32.5	15.0
M25	36.0	39.5	15.0
M32	46.0	50.5	15.0
M40	55.0	60.6	15.0
M50	65.0	70.8	15.0
M63	80.0	88.0	15.0
M75	95.0	104.0	15.0
M80	95.0	104.0	16.0
M90	106.4	117.0	17.0
M100	115.0	126.5	17.0
M110	127.0	139.7	18.0
M115	127.0	139.7	18.0
M120	140.0	154.0	20.0
M130	140.0	154.0	20.0

NB: Other parallel thread forms are available on request.

#### SPECIFIC CONDITIONS OF SAFE USE

##### 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 spanner or wrench.

##### 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 suitable spanners or wrenches.
5. The 390 stopping plug may be supplied with an NPT thread for use in clearance holes. In these instances, the stopping plug will be supplied with NPSM locknuts and the enclosure wall thickness shall be between 2 mm minimum and 10 mm maximum. The clearance hole should be no greater than 0.7mm above the thread maximum diameter.

#### 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, the sealing face of the enclosure shall be smooth and at right angles to the enclosure face. Where the hole is in excess of 25mm diameter in plastic enclosures consideration must be given to possible draw angle (taper) on the enclosure wall and the hole shall be no larger than 0.7mm above the major diameter of the male thread on the stopping plug. The stopping plug shall be secured with a locknut and optional locking washer.
5. When fitted in threaded holes, the sealing face of the enclosure shall be smooth. The threaded hole shall be perpendicular to the wall of the enclosure and shall be a medium fit thread.
6. When the stopping plugs are used for increased safety or dust protection and the O-ring is not fitted, the user shall ensure enclosure and stopping plug interface are 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 Type: 390 Stopping Plugs (Group I & II)**

#### Provisions of the Directive fulfilled by the Equipment:

Group I Category 1M2 Exeb I Mb – IP66  
Group II Category 2GD Exeb IIC Gb, Extb IIIC Db – IP66

**Notified Body for EU-Type Examination:** SGS - Baseefa 1180 Buxton UK

**EU-type Examination Certificate:** Baseefa 11ATEX0157X

**Notified Body for production:** SGS - Baseefa 1180 Buxton UK

#### Harmonised Standards used:

EN 60079-0:2012+A11:2013, EN 60079-7:2015, EN 60079-31:2014.

**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.**

**A. Tindall**  
**Technical Manager**