

Installation Manual for Stopping Plug/Blanking Element

Blanking element for use in explosive atmospheres to close off threaded entry holes

Please read all instructions carefully before beginning the installation

CABTEK Hexagonal and Allen Stopping Plug/Blanking elements are for Indoor and Outdoor use in the appropriate Hazardous Areas.

Stopping Plugs are designed for hazardous area applications and are certified to protection concept Ex db "Flameproof" and Ex eb "Increased Safety" for use in Zone 1 and Zone 2 applications.

Construction materials made up of Brass CW614N/SS316L and Nylon IP Washer. Stopping plugs are designed to be installed from the outside of an enclosure and can be used in a threaded or un-threaded entry hole.

An appropriate sized sealing washer to be used to ensure the required level of ingress protection is maintained as supplied. Material Compatibility under chemical corrosion or attack by aggressive substance must be considered before installation.

Stopping Plug/Blanking elements confirm to following Standards for Group II, Category - 2 for Zone 1, 2, 21 & 22 for ambient temperature range $-60^{\circ}\text{C} \leq \text{Ta} \leq +125^{\circ}\text{C}$.

Standards Applied: EN IEC 60079-0: 2018

EN/IEC 60079-1: 2014

EN/IEC 60079-31:2014/2013



Ex marking on Stopping Plug/Blanking elements:



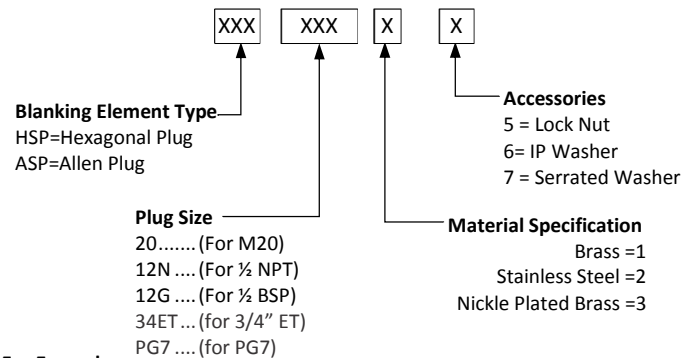
| | |
|------------------------------------|--------------------------------------------------|
| Protection Method | Ex db, Ex eb and Ex tb |
| Ingress Protection (IP) Maintained | IP67 |
| Temperature | -60°C to 125°C |
| Materials : Base Materials | Brass, 316L stainless Steel, Nickel Plated Brass |
| Thread forms | Metric, NPT, BSP, ET, PG |

Special Conditions of Safe Use of Stopping Plug/Blanking Elements:

- The Blanking elements must not be used with a thread adaptor / reducer in flameproof applications.
- Its user's responsibility to ensure the appropriate ingress protection level on the interfaces between these devices and the associated enclosure.
- When the stopping plugs are used for increased safety or dust protection and no thread seal is 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.
- 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.
- 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 15mm diameter in enclosures consideration must be given to possible draw angle (taper) on the enclosure wall and the hole shall be no larger than 0.3 to 0.5mm above the major diameter of the male thread on the stopping plug.
- The stopping plug is secured using a suitable locknut inside the enclosure for plain holes in increased safety enclosures.
- These stopping plugs can be used in clearance holes or tapped entries on increased safety or flameproof enclosures as appropriate.

Stopping Plug/Blanking Elements Ordering details:

Product Code for Ordering Purpose



For Example:

HSP-20-36= M20 Nickel Plated Hexagonal Stop Plug with IP Washer

HSP-12N-356= 1/2" NPT Nickel Plated Hexagonal Stop Plug with Lock Nut & IP Washer

For Blanking elements torque details given as below.

| SIZE | Torque Nm |
|------------|-----------|
| M16x1.5 | 65 |
| M20x1.5 | 65 |
| M25x1.5 | 95 |
| M32x1.5 | 110 |
| M40x1.5 | 130 |
| M50x1.5 | 170 |
| M63x1.5 | 200 |
| M75x1.5 | 230 |
| M90x1.5 | 280 |
| M100x1.5 | 310 |
| 3/8" NPT | 90 |
| 1/2" NPT | 90 |
| 3/4" NPT | 95 |
| 1" NPT | 115 |
| 1 1/4" NPT | 130 |
| 1 1/2" NPT | 170 |
| 2" NPT | 200 |
| 2 1/2" NPT | 230 |
| 3" NPT | 280 |
| 3 1/2" NPT | 310 |

HSP



ASP



The HSP & ASP Stopper Plugs are available in metal for use in Ex d and Ex e environments only.

INSTALLATION INSTRUCTIONS:

Installation should only be performed by a competent person using the correct tools. Ensure thread type and size are compatible with the associated enclosure / fitting threads. Fully tighten threads

Warning:

Please study carefully these instructions before installation. These Stopping Plug/Blanking element should not be used in any application other than those mentioned here, unless CABTEK states in writing that the product is suitable for such application. CABTEK will not take any responsibility for any damage, injury or other consequential loss caused where the Stopping Plug/Blanking Elements are not installed or used according to installation instructions. This leaflet is not intended to advice on the selection of Stopping Plug/Blanking Elements.

Customer Care:

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