

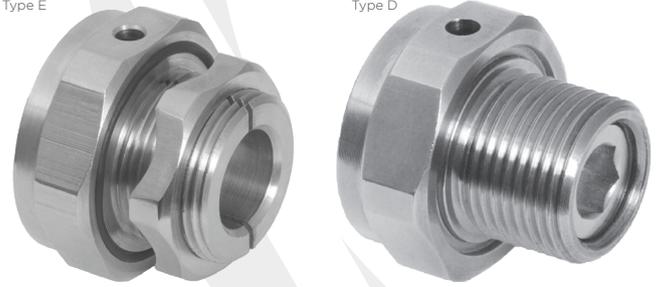
781

781 BREATHER / DRAIN PLUG, GLOBALLY APPROVED, EXPLOSIVE ATMOSPHERE CABLE / CONDUIT ACCESSORY

- 781E for Ex e use
- 781D for Ex d use
- Drains equipment susceptible to moisture collection
- Enables equipment to breathe
- General purpose / industrial version available
- Nylon Ex e only version available (-20°C to +60°C)
- -60°C to +130°C (metallic versions)
- Globally marked, UKEX, IECEx, ATEX and cCSAus
- The 781D can be used with enclosures up to 30 litres for group IIB gases and enclosures up to 2.5 litres for group IIC gases
- No enclosure volume restrictions apply to 781E

Type E

Type D



IP66
+130°C
↑
-60°C

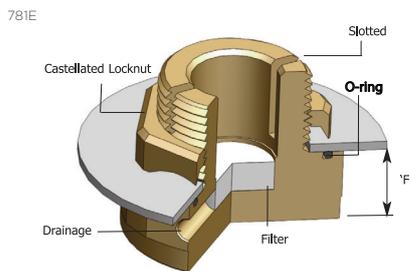
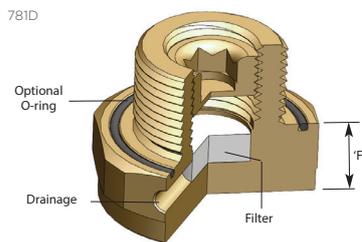
Ex db Ex eb Ex ta

TECHNICAL CLASSIFICATION

| | |
|----------------------------------|---|
| DESIGN SPECIFICATION | BS 6121:Part 1:1989 |
| ENCLOSURE PROTECTION | IK10 to IEC 62262 (20 joules) Brass and Stainless Steel Only |
| INGRESS PROTECTION RATING** | 781D: IP66 (when fitted with CMP sealing accessories) 781E: IP66 (with o-ring interface seal and lock nut as standard) |
| AVAILABLE MATERIALS | Brass, Nickel Plated Brass, Aluminium, Stainless Steel, Nylon (781E only) |
| CONTINUOUS OPERATING TEMPERATURE | 781D: -60°C to +130°C 781E: -60°C to +130°C (-20°C to +60°C Nylon) |
| ACCESSORIES INCLUDED (781E ONLY) | Integral Entry Thread equipment interface o-ring seal, Castellated Locknut |

** When CMP installation accessories are used (781E). Refer to www.cmp-products.com for further information.

The 781D can be used with enclosures up to 30 litres for group IIB gases and enclosures up to 2.5 litres for group IIC gases. No enclosure volume restrictions apply to 781E.



GLOBAL PRODUCT CERTIFICATION

| | | | |
|--------------------------------|--|---------------------------------|--|
| ATEX CERTIFICATE | CML 18ATEX1330U | IECEx CERTIFICATE | IECEx CML 18.0187U |
| UKEX CERTIFICATE | CML 21UKEX1241U | | |
| CODE OF PROTECTION | 781D: Ⓜ II 2G 1D Ex db IIC Gb, Ex ta IIIC Da 781E: Ⓜ II 2G 1D Ex eb IIC Gb, Ex ta IIIC Da | CODE OF PROTECTION | 781D: Ex db IIC Gb, Ex ta IIIC Da 781E: Ex eb IIC Gb, Ex ta IIIC Da |
| COMPLIANCE STANDARDS | EN 60079-0,1,7,31 | COMPLIANCE STANDARDS | IEC 60079-0,1,7,31 |
| cCSAus CERTIFICATE (20S16-100) | 1055233 | UL CERTIFICATE | E253914-20160608 |
| CODE OF PROTECTION | 781D: Ex d IIC, Class I, Zone 1 AEx d IIC; Class I Div 1, Groups A,B,C,D, Enclosure Type 4X 781E: Ex e II, Class I, Zone 1, AEx e II, Enclosure Type 4X | CODE OF PROTECTION | 781D: Class I, Zone 1, AEx d IIB or IIC; Zone 20, AEx ta IIIC 781E: Class I, Zone 1, AEx e IIC |
| COMPLIANCE STANDARDS | CSA C22.2 30, 94; CSA C22.2 60079-0,1,7, E61241-1-1, UL50, 1203, UL60079-0,1,7 | COMPLIANCE STANDARDS | UL 60079-0, 1, 7, 31 |
| EAC CERTIFICATE | RU C-GB.A.07.B.02492/20 | | |
| COMPLIANCE STANDARDS | 781D: Ex db IIC Gb U, Ex ta IIIC Da U 781E: Ex e IIC Gb U, Ex ta IIIC Da U | | |
| RETIE APPROVAL NUMBER | EL-CS-220061 | CODE / PESO (INDIA) CERTIFICATE | P548696, P533772 |
| ECAS CERTIFICATE | 24-03-106290/E24-03-110155/NB0007 | UKrSEPRO CERTIFICATE | CLL 19.0370U |
| MARINE APPROVALS | LRS: LR22320739TA | KCS CERTIFICATE | 781E: 19-AV4BO-0255X, 781D: 19-AV4BO-0254X |
| INMETRO APPROVAL | TÜV 12.1330U | | |
| SANS | IA S-XPL21962 21.0304U | | |

HOW TO ORDER

e.g. 781 - D - M - 3 = Ex d - M25

e.g. 781 - E - M - 3 = Ex e - M25

Other thread variations are available on request. For further information on ordering please refer to the Ordering Accessories page.

The CMP 781E range of Increased Safety type 'e' breather / drain plugs have been tested together with CMP serrated washers to ensure that in areas that are subject to vibration the plug does not suffer from self-loosening and inadvertently fall out of the enclosure. Serrated washers are not included as standard but can be ordered separately.

PRODUCT SELECTION TABLE

| ORDERING REFERENCE (781D) | ORDERING REFERENCE (781E) | THREAD SIZE | MINIMUM THREAD LENGTH | PROTRUSION LENGTH 'F' | ACROSS FLATS DIMENSION | ACROSS CORNERS DIMENSIONS |
|---------------------------|---------------------------|-------------|-----------------------|-----------------------|------------------------|---------------------------|
| 781DM2 | 781EM2 | M20 x 1.5 | 15.0 | 12.7 | 30.0 | 33.0 |
| 781DM3 | 781EM3 | M25 x 1.5 | 15.0 | 12.7 | 36.0 | 39.6 |
| 781DT1 | 781ET1 | ½" NPT | 19.9 | 12.7 | 30.0 | 33.0 |
| 781DT2 | 781ET2 | ¾" NPT | 20.2 | 12.7 | 36.0 | 39.6 |

All dimensions shown are in millimetres unless otherwise stated

Dimensions listed are for metric accessories only. Dimensions for alternative threads may vary.

www.cmp-products.com

TDS589 REV16 12/24