



INSTALLATION INSTRUCTIONS FOR INSTALLATION OF CMP BREATHER DRAIN TYPE 781D & 781E

BREATHER DRAIN DEVICES FOR USE IN Ex d (781D) OR Ex e (781E) APPLICATIONS.

INCORPORATING EU DECLARATION OF CONFORMITY TO DIRECTIVE [2014/34/EU]

TYPE 781D & 781E BREATHER DRAIN



781E



781D



**781D - Breather drain
for Ex d applications**

**781E - Breather drain
for Ex e applications**



Logo's shown for illustration purposes only. Please check certification for details

TECHNICAL DATA

CABLE GLAND TYPE : 781D / 781E
INGRESS PROTECTION : IP66, 67, 68 (when fitted with CMP installation accessories)
PROCESS CONTROL SYSTEM : BS EN ISO 9001 - 2000
: ISO/IEC 80079-34:2011

EXPLOSIVE ATMOSPHERES CLASSIFICATION

ATEX CERTIFICATION No : SIRAI0ATEX1307U
ATEX CERTIFICATION CODE 781D : II 2G Ex d IIC Gb, II 1D Ex ta IIIC Da
ATEX CERTIFICATION CODE 781E : II 2G Ex e IIC Gb, II 1D Ex ta IIIC Da
IECEX CERTIFICATION No : IECEX SIR.10.0149U
IECEX CERTIFICATION CODE 781D : Ex d IIC Gb, Ex ta IIIC Da
IECEX CERTIFICATION CODE 781E : Ex e IIC Gb, Ex ta IIIC Da

INSTALLATION INSTRUCTIONS

Installation should only be performed by a competent person using the correct tools. Spanners should be used for tightening. Read all instructions before beginning installation.

SPECIAL CONDITIONS FOR SAFE USE

- When used as drain plugs the 781D or 781E must be fitted to the bottom of the enclosure.
- 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
- The breather drain plug shall not be used with any form of adaptor or reducer.
- The temperature range for these products is :- 781D: -60°C to +130°C
781E (Metal / Viton o-ring): -20°C to +130°C
781E (Metal / Silicon o-ring): -20°C to +130°C
781E (Plastic): -20°C to +105°C

Product Selection Table

Ordering Reference (781D)	Ordering Reference (781E)	Thread Size	Minimum Thread Length	Protrusion Length	Across Flats Dimension	Across Corners Dimensions	Max Installation Torque (Nm)
781DM2	781EM2	M20 x 1.5	15.0	12.7	30.0	33.0	7
781DM3	781EM3	M25 x 1.5	15.0	12.7	36.0	39.6	10
781DT1	781ET1	½" NPT	19.9	12.7	30.0	33.0	7
781DT2	781ET2	¾" NPT	20.2	12.7	36.0	39.6	10

All dimensions shown are in millimetres unless otherwise stated

Materials

Order reference is for Brass.

- Add "5" at the end for Nickel Plated Brass (e.g. 781DM25)
- Add "4" at the end for stainless steel (e.g. 781EM24)
- Add "2" at the end for plastic (e.g. 781EM22) - Not available for 781D

CMP Products Limited, on its sole responsibility declares that the equipment referred to herein conforms to the requirements of the ATEX Directive 2014/34/EU and the following standards :-

EN60079-0:2012, EN60079-1:2007, EN60079-7:2007, EN60079-15:2010, EN60079-31:2009, BS6121:1989, EN62444:2013

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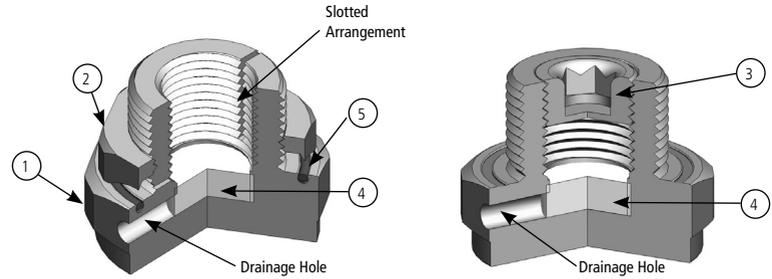
Notified Body: Sira Certification Service, Unit 6 Hawarden Industrial Park, Hawarden, CH5 3US, England.

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INSTALLATION INSTRUCTIONS FOR CMP ACCESSORY TYPES 781D & 781E BREATHER DRAIN PLUGS

ACCESSORY COMPONENTS - It is not necessary to dismantled the breather drain any further than illustrated below

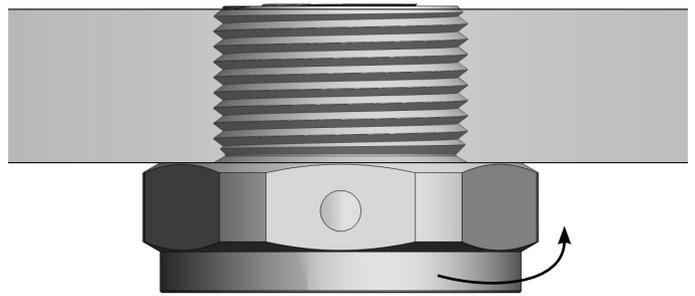
- 1. Body
- 2. Castellated Locknut (781E only)
- 3. Threaded Insert (781D only)
- 4. Felt pad
- 5. 'O' Ring Seal



PLEASE READ ALL INSTRUCTIONS CAREFULLY BEFORE BEGINNING THE INSTALLATION

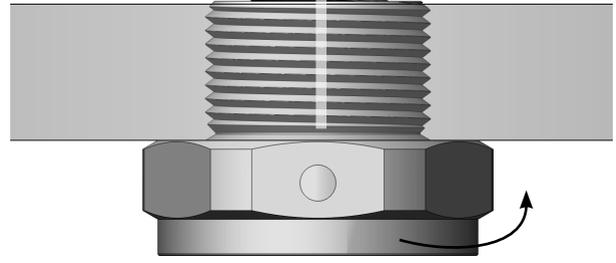
781D ONLY

Screw the breather drain body (1) into the equipment and tighten with a spanner.
Do not disturb the threaded insert (3).
This insert forms a protective flamepath and is also the drain path for any water that may get into the equipment.



781E ONLY - THREADED ENTRY

- 1. Remove the castellated locknut
- 2. If the equipment entry is threaded, screw the breather drain body (1) into the entry hole and tighten with a spanner. There is no need to fit the castellated locknut. Do not disturb the felt pad (4).



781E ONLY - CLEARANCE HOLE ENTRY

If the equipment entry is a clearance hole, then position the body (1) in the entry hole and secure using the castellated locknut and tighten. Ensure that the nut castellations are towards the enclosure wall to ease water drainage.
Do not disturb the felt pad (4).

