

INTERNATIONAL ELECTROTECHNICAL COMMISSION

IEC 60079-31
Edition 1.0 2008-11

EXPLOSIVE ATMOSPHERES –

Part 31: Equipment dust ignition protection by enclosure "t"

INTERPRETATION SHEET 1

This interpretation sheet has been prepared by IEC technical committee 31: Equipment for explosive atmospheres.

The text of this interpretation sheet is based on the following documents:

DISH	Report on voting
31/1605/DISH	31/1616/RVDISH

Full information on the voting for the approval of this interpretation sheet can be found in the report on voting indicated in the above table.

IEC 60079-31:2008 Edition 1.0, Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"

Question 1:

The requirements given in 5.2.2 of IEC 60079-31:2008 (Edition 1) permit threaded entries for dust protected enclosures to be tapered threads or parallel threads with not less than five threads, with a minimum tolerance of medium or fine according to ISO 956-1 and ISO 965-3.

Does the description of threads include other thread forms such as ISO 228-1 threads (these threads are commonly referred to as BSPP or Type G threads and BSPT or Type R threads)?

Answer 1:

No, only metric and NPT threaded entries are permitted for enclosures having equipment dust ignition protection by enclosure.

NOTE It has been determined that some sizes of Type G and NPT threads will engage but will result in a mismatched thread engagement. The intention of the restriction to only metric and NPT regarding threaded entries for dust ignition protection by enclosure is to minimize the risk of mismatch of thread forms in enclosure entries.

Question 2:

Where a thread adapter is fitted and assessed as a factory-assembled part of the dust protected enclosure, what are the permitted thread forms?

Answer 2:

A thread adapter may use thread forms other than metric and NPT, whether as an Ex Equipment thread adapter or as a thread adapter fitted and assessed as a factory-assembled part of the dust protected enclosure.

Question 3:

Can a blanking element be installed in a thread adapter which is fitted and assessed as a factory-assembled part of the dust protected enclosure?

Answer 3:

Yes, a blanking element can be installed in a thread adapter which is fitted and assessed as a factory-assembled part of the dust protected enclosure.

Question 4:

What is the required marking when a thread adapter is fitted and assessed as a factory assembled part of the dust protected enclosure?

Answer 4:

Clause 16.2 of IEC 60079-0 (Editions 6 and 7) requires identification of the specific thread type and size of threaded entries. In the case where the thread adapter is fitted and assessed as a factory-assembled part of the dust protected enclosure, the requirement for identification applies to the thread form of the adapter for the field wiring connection.