



APM Hexseal Client Case Study

PROBLEM

How to make your PC and Monitor Function in Explosive Environments

SITUATION

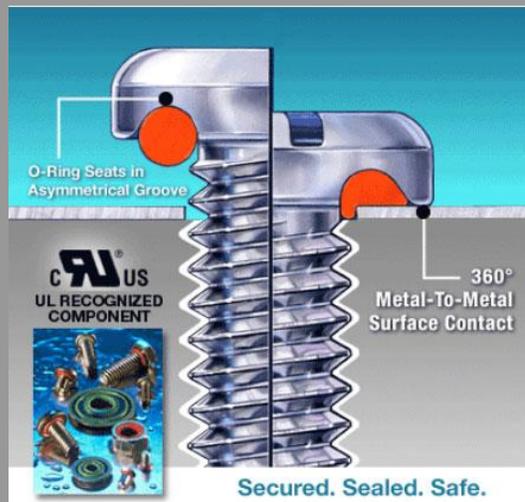
[DAISY DATA INC](#) of York Haven, Pennsylvania specializes in design and manufacturing of Universal Equipment Enclosures and Purging Controls for hazardous areas such as food processing, pharmaceutical manufacturing and other industrial applications. The theory behind these enclosures is to keep electronics that have the potential of producing sparks or high temperatures isolated in explosive environments.



This is accomplished by placing the electronics (PC or monitor) in a stainless steel [\(NEMA 4X\)](#)

SOLUTION

DAISY DATA computer enclosure uses a number of screws, with each mounting hole representing a potential leakage point. Ordinary screws could not insure sealing. DAISY chose [APM re-usable self-sealing fasteners](#).



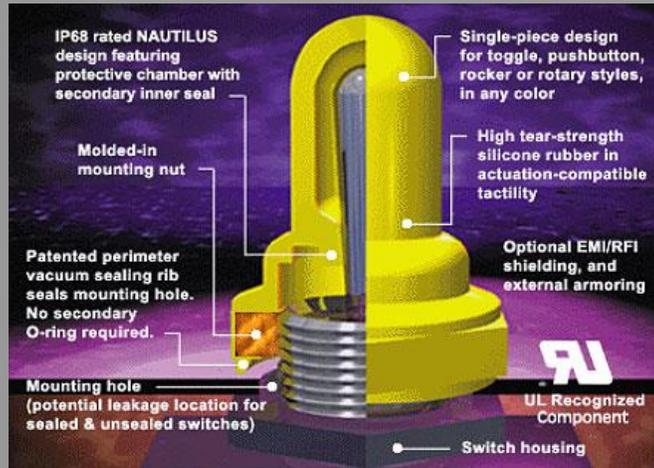
Each screw incorporates a captive O-ring located in a precision groove under the head. Watch our [video](#) (below) for more information on APM Hexseal sealing technology.



Daisy purge controls also feature switches that must also be sealed. See APM diagram below. To achieve this,

enclosure that is sealed against entry of outside atmosphere.

The enclosure is regulated by a microprocessor-controlled purge system that replaces the enclosure atmosphere with inert gas under slight pressure. This sophisticated enclosure system also includes viewing windows, internal fans and alarm contacts. To successfully build their enclosures, Daisy required that all fasteners be self-sealing, and that all purge device switches be environmentally sealed.



DAISY specified APM's toggle and push-button switch [environmental sealing boots](#).

 [Join Our Mailing List](#)

 [Forward to a Friend](#)

APM Hexseal Corporation 201-569-5700
newsletter@apmhexseal.com