



*Quality and Value
Through Engineering*

18-8 Stainless Steel

Coatings Available

- ◆ Molybdenum Disulfide
- ◆ Tungsten Disulfide
- ◆ Silver

Thread Vented Screws

Thread vented screws provide the best strength in smaller size screws and provide the best method of venting. They are essential for use in Ultra High Vacuum (10⁻⁸ or better).

Center Vented Screws

Signet also provides center vented screws. Center vented screws are a cost effective alternative to thread vented screws for most sizes for use in High Vacuum (up to 10⁻⁷).

Thread Vented Screws

For Vacuum Equipment

Signet Thread Vented Screws



Sample Signet Thread Vented Screws

The three screws at the left of the photo are stainless steel without any coating. The two at the right have a parting agent coating. The dark colored screw's parting agent coating is of tungsten disulfide and the other is silver plated.

Vacuum systems often experience problems known as virtual leaks due to trapped volumes of gas. A virtual leak is a source of gas that is released very slowly inside a vacuum system. A typical source of a virtual leak is a blind tapped hole within the vacuum system. Vented screws can be used to allow this trapped gas to rapidly escape. The elimination of virtual leaks improves system performance.

Signet thread vented screws are slotted along the threads and into the screw head. This slot along the threads allows the gas to be pumped rapidly from the bottom of the blind tapped hole and from the screw threads, which results in the avoidance of virtual leaks. Thread venting retains almost all the strength of the non-vented screw and may be the only way longer screws can be vented.

There is a minimum order quantity of 55 screws. Signet can supply most sizes, head types and coatings. We would be pleased to have the opportunity to quote your requirements.

Ref. = Design Alteration of OEM Part

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