



NPT Pressure Taps on MSI Equipment

MSI Technical Bulletin 007

Subject: Pressure ratings for MSI equipment with an ASME B1.20.1 (NPT) pressure boundary penetration.

The following table outlines the maximum pressure ratings for various size NPT pressure taps:

NOMINAL SIZE	1/4"	3/8"	1/2"	3/4"	1"
PRESSURE RATING (psig)	15,000	15,000	15,000	10,000	10,000

Calculations for determining maximum pressure assume minimum specified material yield strength of 75,000 psi and therefore cover both sour (H₂S) and non-sour (STD) service designated materials used by MSI. In some cases, the NPT pressure tap may reduce the working pressure of the equipment due to a lower allowed maximum pressure. In all cases, the lowest rated component in any pressure circuit determines the pressure rating for the entire system.

For example: An MSI 2"1502F H₂S blind plug with a 1/2" FNPT pressure tap is rated to 15,000 psig working pressure. If a device is connected that is rated to 7,500 psig working pressure, the resulting working pressure of the entire system is now 7,500 psig.

The end user is responsible for determining the final working pressure of the system.

Please contact MSI Engineering if you have any further questions.

MSI, A Division of Dixie Iron Works, Ltd.

MSI is a division of Dixie Iron Works, Ltd
300 W. Main St.
Alice, Texas 78332, USA
Phone: 800-242-0059
Fax: 361-664-4840
www.diwmsi.com