



MSI Figure 2002 & 2202 Unions

The purpose of this bulletin is to explain the design intent of these unions and provide information regarding availability and differences in identification by manufacturer.

By design, figure 2002 unions are intended only for non-sour (STD) service rated to 20 ksi WP and figure 2202 unions are intended only for sour (H2S) service rated to 15 ksi WP. Unlike figure 1502 for example which is used for both STD and H2S, the 2002 and 2202 figures are purposely designed to be incompatible with each other. A different thread pitch is utilized to help prevent mismatch – a 2002 thread cannot make up to a 2202 thread. MSI strictly adheres to this design intent and will never offer 2002 H2S or 2202 STD. We have actually been asked to do this and take the opportunity in those situations to provide education to help keep the industry safe.

MSI offers figure 2002 and 2202 union end connectors in 2" and 3" nominal sizes. The table below will help to identify connections based on bore size and thread pitch.

Nominal Size <i>inch</i>	Actual Bore <i>inch (mm)</i>	Service Class	Thread Pitch <i>threads per inch</i>
2"	1.31" (33.3)	STD, 2002	4
		H2S, 2202	5
3"	3.06" (77.7)	STD, 2002	4
		H2S, 2202	5

Some manufacturers label sizes out of accordance with the tabulated information above, therefore, Nominal Size and Service Class alone are not reliable means of identification. Positive identification requires additionally defining the union in terms of Actual Bore and Thread Pitch. These components are required to communicate the need and assure the correct equipment is provided when ordering replacement or new equipment.

You may contact an MSI representative at sales@diwmsi.com or engineering@diwmsi.com for additional information or assistance in union identification.

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