

**ME691, ME693  
NPSM SWIVEL WELDMENT  
INSTALLATION AND  
OPERATING INSTRUCTIONS**



**!WARNING!**

Failure to follow these instructions or to properly install and maintain this equipment could result in an explosion and/or fire causing property damage and personal injury or death.

MEC equipment must be installed, operated, and maintained in accordance with federal, state, and local codes and manufacturer's instructions. The installation in most states must also comply with NFPA No. 58, and ANSI Standard K61.1.

Only personnel trained in the proper procedures, codes, standards, and regulations of the LP-Gas industry should install and service this equipment.

**!GENERAL WARNING!**

Marshall Excelsior products are mechanical devices that are subject to wear, contaminants, corrosion, and aging of components made of materials such as rubber and metal. Over time these devices will eventually become inoperative. The safe service life of these products will reflect the environment and conditions of use that they are subjected to. Regular inspection and maintenance is essential. Marshall Excelsior products have a long record of quality and service, so LP-Gas dealers may forget hazards that can arise from using aging devices that have outlived their safe service life.



**WARNING:** These products contain a chemical known to the state of California to cause cancer and birth defects or reproductive harm

**Scope of the Manual**

This manual covers the installation and usage of the ME691 and ME693 series NPSM swivel weldments.

**Marshall Excelsior Company**

1506 George Brown Drive Marshall, MI 49068  
Phone (269) 789-6700 Fax (269) 781-8340  
www.marshallexcelsior.com

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**Introduction**

The ME691 and ME693 series swivel connectors are designed to allow rigid connections between a socket or butt weld and NPT piping, NPSM or other similar connections.

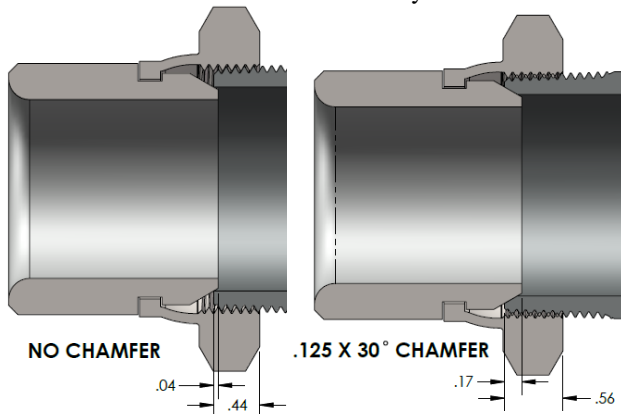
**Features:**

- Steel or stainless material
- Crimped free-spinning swivel for ease of use and high holding strength
- Rust-inhibited weldment end compatible with standard and MEC™ weld sockets, as well as a variety of butt-weld connections.

**Installation and Operation**

Follow this procedure on every operating application in order to prevent hazardous conditions:

- Before installation, the swivel connection must be free of dirt, debris, foreign matter and other particles that could interfere with sealing.
- The mating piece for any NPT or NPSM connection is recommended to have a 30° chamfer where it will contact the swivel nipple, in order to aid metal-on-metal sealing. The lack of such a chamfer will result in minimal contact and a low ability to seal.



- When installed, an NPSM swivel should be tightened to the following torque values to ensure a metal-on-metal seal:

NPSM Size	In-lbs	Ft-lbs
1-1/2"	2840	237
2"	3720	310

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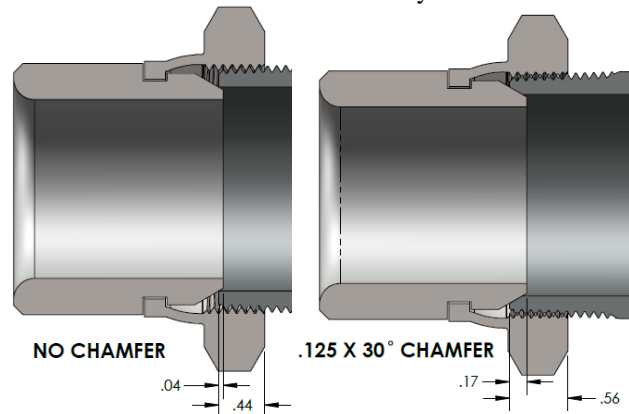
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