

TECHNICAL BULLETIN

»» CLEVIS HANGERS

SUBJECT: MSS SP-58

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PAGE: 1 of 1

Architects and engineers often specify clevis hangers and other overhead pipe supports by using published guidelines by the Manufacturer's Standardization Society (MSS) in their standard practice document known as SP-58, which speaks directly to Pipe Hangers and Supports – Materials, Design, Manufacture, Selection, Application and Installation. Sioux Chief's 515 series clevis hangers are designed for light, commercial applications and should not be confused with "rigid" hangers. Single rod rigid hangers have different load ratings depending on threaded rod sizes. Section 7.2.1 of the MSS SP-58 states that hanger rods shall be a minimum of 3/8" nominal diameter and that the use of 3/8" rod is limited to nominal pipe and tubing sizes up to 4". For pipe and tubing greater than NPS 4, the nominal rod diameter shall not be less than 1/2" and sized for the design load per Tables 2 and 2M of MSS SP-58. In addition, Table 2 of MSS SP-58 states that the maximum safe working load of 3/8" rod temperature at 650°F is 730-lbs. The chart below is provided to show information from Table 1 of MSS SP-58, followed by the load ratings on Sioux Chief's clevis hanger spec sheet. This information does not apply to single rigid rod hangers. Installers should refer to Table 3 of the MSS SP-58 for load ratings and rod diameters when installing single rigid rod hangers.

Nominal Pipe or Tube Size (NPS – Inch) From Table 1 of MSS SP-58	Minimum Design Load Ratings at normal temperature range (-20°F – 650°F)	Nominal Pipe or Tube Size (NPS – Inch) CTS	SCM Safe Working Loads at normal temperature range (-20°F – 650°F)	Nominal Pipe or Tube Size (NPC – Inch) IPS	SCM Safe Working Loads at normal temperature range (-20°F – 650°F)
3/8"	150 lbs	N/A	N/A	N/A	N/A
1/2"	150 lbs	1/2"	150 lbs	1/2"	150 lbs
3/4"	150 lbs	3/4"	150 lbs	3/4"	200 lbs
1"	150 lbs	1"	150 lbs	1"	200 lbs
1 1/4"	150 lbs	1 1/4"	150 lbs	1 1/4"	200 lbs
1 1/2"	150 lbs	1 1/2"	200 lbs	1 1/2"	200 lbs
2"	150 lbs	2"	250 lbs	2"	250 lbs
2 1/2"	150 lbs	N/A	N/A	2 1/2"	300 lbs
3"	200 lbs	N/A	N/A	3"	300 lbs
3 1/2"	210 lbs	N/A	N/A	N/A	N/A
4"	250 lbs	N/A	N/A	4"	350 lbs

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