



## Well Service Pump Stall Ratings

MSI Technical Bulletin 002

Subject: Stall or Squeeze ratings for the 600HP and 1000HP well service pump.

The intent of this bulletin is to define the maximum pressure allowable when stalling the MSI well service pump. When a well service job, typically cementing, requires a high pressure at the end of the job, typically the last two or three turns of the pump shaft, it is allowable to go to the pressures listed below without causing significant damage to the pump. Any extended amount of pumping at these pressures will cause significant damage to the pump.

Plunger size (in)	Stall / Squeeze pressure (psig)
2.75	18,500
3.00	17,500
3.25	15,000
3.50	13,000
4.00	10,000
4.50	7,800

The pressures listed above are intended for use only when absolutely necessary and only when the pump speed is less than 25 revolutions per minute. The pump will not perform at these pressures for any significant amount of time without causing bearing damage. These "Squeeze" pressures are intended to be used at the end of a job when packing off and stalling the pump only. These pressures produce extremely high bearing loads on the pump and will reduce the life expectancy of those bearings.

**\*\*It is extremely important that the rated working pressure of any equipment attached to the pump not be exceeded\*\***

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