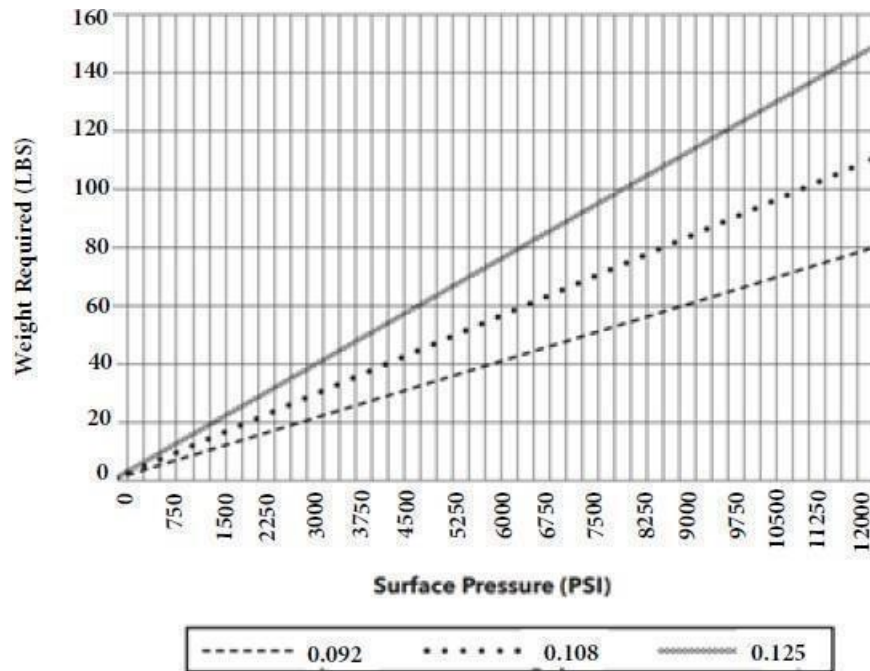


**STEM WEIGHT VS WELL PRESSURE**



**NOTE: STEM WEIGHT GIVEN IS AT A BALANCE POINT.**

- \* BALANCE POINT / FORCE = PRESSURE TIMES AREA
- \* FORCE IS WEIGHT REQUIRED TO BALANCE (IN POUNDS)
- \* PRESSURE IS WELL PRESSURE (IN PSI)
- \* AREA IS CROSS SECTIONAL AREA OF WIRELINE (IN INCHES SQUARED)
- \* PRESSURE (PSI) x (π x D<sup>2</sup>/4)
- \* WEIGHT REQUIRED (POUNDS) = PRESSURE (PSI) TIMES J D<sup>2</sup> / 4 OF WIRE LINE

**PURPOSE**

The Stem is a device that adds weight to the tool string. It increases the hammering action in the tool string which allows the jars to transmit more force. Large or small OD stems are used based on the well conditions.

(Sizes on next page)

Nominal Size	0.75"	1.0"	1.25"	1.50"
Length 2 feet	0101ST07502	0101ST10002	0101ST12502	0101ST15002
Length 3 feet	0101ST07503	0101ST10003	0101ST12503	0101ST15003
Length 5 feet	0101ST07505	0101ST10005	0101ST12505	0101ST15005
Upper Thread Connection	0.5"-13 UNC	0.625"-11 NC	0.938"-10 UN	0.938"-10 UN
Lower Thread Connection	0.5"-13 UNC	0.625"-11 NC	0.938"-10 UN	0.938"-10 UN
Max O.D.	.75"	1.00"	1.25"	1.50"
Fishneck size	.75"	1.00"	1.187"	1.375"

Nominal Size	1.75"	1.87"	2.125"
Length 2 feet	0101ST17502	0101ST18702	0101ST21202
Length 3 feet	0101ST17503	0101ST18703	0101ST21203
Length 5 feet	0101ST17505	0101ST18705	0101ST21205
Upper Thread Connection	1.062"-10 UN	1.062"-10 UN	1.062"-10 UN
Lower Thread Connection	1.062"-10 UN	1.062"-10 UN	1.062"-10 UN
Max O.D.	1.75"	1.875"	2.125"
Fishneck size	1.75"	1.75"	1.75"

\* Inquire about quick connect stems and higher weight tungsten filled stems. \*