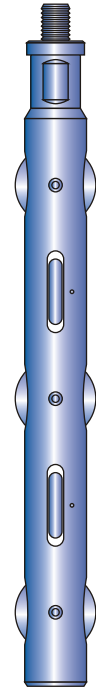




### 'SM' ROLLER STEM

PARVEEN Roller Stems are used with tool string in deviated wells. Its application is to reduce friction against tubing ID. In assembly of Roller Stems : Teflon / Alloy Steel Rollers (suitable for high temperature / H2S Service), specialty bearings are assembled with body. Roller Stems are available in various Lengths, ODs, Connections and Rollers dia.



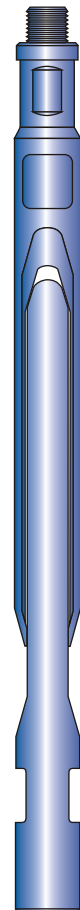
**ROLLER STEM**

Engineering Data for Roller Stem					
SIZE (IN.)	MAX. O.D. (IN.)	F/N.O.D. (IN.)	THREAD CONN. PIN X BOX (IN. - TPI.)	NO. OF WHEELS	PART NO.
1-1/2	2.00	1.375	15/16-10 UN	3	52200321
1-7/8	2.50	1.750	1-1/16-10 UN	3	52250332
2-1/2	3.00	2.312	1-9/16-10 UN	3	52300346
1-1/2	2.00	1.375	15/16-10 UN	4	52200421
1-7/8	2.50	1.750	1-1/16-10 UN	4	52250432
2-1/2	3.00	2.312	1-9/16-10 UN	4	52300446

- Other sizes available on request.

### 'MJ' SPANG LINK JARS OR MECHANICAL JARS

PARVEEN Spang Link or Mechanical Jars are used in wireline fishing operations with stems. The weight of stems and jars can be used by operator for jarring by pulling and then releasing wireline. These Jars are available in various sizes and strokes. Force = Mass x Acceleration. Stem weight is fixed but speed can be varied. In jar down action, speed is limited due to limited travel and gravity. Jar of action is more effective as speed can be increased by increasing the spooling speed of wireline unit and using long jars.



**SPANG LINK JAR**

Engineering Data for Spang Link Jars or Mechanical Jar					
SIZE (IN.)	MAX. O.D. (IN.)	F/N. OD (IN.)	THREAD CONN. PIN X BOX (IN. TPI)	STROKE (IN.)	PART NO.
1	1.000	0.875	5/8-11 UNC	20	11102000
1	1.000	0.875	5/8-11 UNC	24	11102400
1-1/4	1.250	1.187	15/16-10 UN	20	11122011
1-1/4	1.250	1.187	15/16-10 UN	24	11122411
1-1/4	1.250	1.187	15/16-10 UN	30	11123011
1-1/2	1.500	1.375	15/16-10 UN	20	11152021
1-1/2	1.500	1.375	15/16-10 UN	24	11152421
1-7/8	1.875	1.750	1-1/16-10 UN	20	11192032
1-7/8	1.875	1.750	1-1/16-10 UN	24	11182432
1-7/8	1.875	1.750	1-1/16-10 UN	30	11193032
2-1/8	2.125	1,750	1-1/16-10 UN	30	11213032
2-1/2	2.500	2.312	1-9/16-10 UN	24	11252446

- Other sizes available on request.