ARTIFICIAL LIFT SOLUTIONS TECH SPECS

S60[™] Sucker Rod

Reliable performance in rod life and PCP lift wells

Applications

- · Reciprocating rod lift systems
- PCP lift systems
- Light- to medium-duty applications in noncorrosive or inhibited wells¹

Features and Benefits

- AISI 1029 carbon-manganese alloy steel
- API Grade C
- Normalized-and-tempered steel improves mechanical properties for overall toughness and reduced brittleness
- Shot-peened process creates compressive stress that strengthens surface-tension properties for enhanced fatigue life

Tool Description

Weatherford S60 sucker rods are part of the Weatherford series of quenched and tempered sucker rods and are recommended for light- to medium-duty pumping services in noncorrosive or inhibited wells. Manufactured to API specifications from AISI 1029 modified carbon steel that is quenched and tempered for added durability and strength. S60 sucker rods feature fully rolled, cold-formed threads designed to provide a precise and smooth, reinforced-thread structure. S60 rods are liberally coated with atmospheric inhibitors and carefully palletized in bundles for safe transport and handling.



Weatherford S60 sucker rods provide reliable performance in light- to medium-duty pumping services in noncorrosive or inhibited wells.



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S60[™] Sucker Rod

Specifications

	Description				
ID	Nominal size	0.750 (19.05)	0.875 (22.23)	1.000 (25.40)	1.125 (28.58)
D_R	Rod body diameter	0.730 (13.03)	0.675 (22.23)	1.000 (25.40)	1.125 (26.56)
Ds	Pin shoulder OD	1.500 (38.10)	1.625 (41.28)	2.000 (50.80)	2.250 (57.15)
D _T	Nominal thread diameter	1.063 (26.99)	1.187 (30.16)	1.375 (34.93)	1.562 (39.69)
Li	Pin length	1.430 (36.51)	1.620 (41.28)	1.870 (47.63)	2.125 (53.98)
Ws	Wrench square width	1.000 (25.40)		1.313 (33.34)	1.500 (38.10)
Lws	Wrench square length	1.250 (31.75)			1.630 (41.28)
D _B	Bead diameter	1.400 (35.72)	1.500 (38.1)	1.900 (48.42)	2.187 (55.63)
Dı	Stress relief diameter	0.915 (23.24)	1.040 (26.42)	1.220 (31.17)	1.414 (35.92)
L _R	Sucker rod length	25 and 30 ft (7.62 and 9.144 m)			
Lp	Pony rod length	2, 4, 6, 8, 10 ft (0.6, 1.2 ,1.8, 2.4, 3 m)			
Lc	Coupling OD, SH	4.00 ft (101.6 m)			
C _{OD}	Coupling OD, SH	1.500 (38.10)	1.625 (41.30)	2.000 (80.80)	2.250 (53.0)
C _{OD}	Coupling OD, FH	1.625 (41.30)	1.812 (46.00)	2.187 (55.60)	2.375 (60.30)
~ 25-ft rod weight w/o coupling		38.5 lbs (17.5 kg)	52.0 lbs (23.6 kg)	69.9 lbs (31.7 kg)	88.7 lbs (40.2 kg)
	~ 25-ft rod weight w/FH coupling	40.0 lbs (18.1 kg)	53.8 lbs (24.4 kg)	72.5 lbs (32.9 kg)	91.8 lbs (41.6 kg)
~ 25-ft rod weight w/SH coupling		39.8 lbs (18.1 kg)	53.5 lbs (24.3 kg)	71.9 lbs (32.6 kg)	91.17 lbs (41.35 kg)

Chemical Composition

Material	C %	Mn %	Р%	S %	Si %	Ni %	Cr %	Mo %	Cu/Va %
1029M	0.22 to 0.29	1.00 to 1.32	0.035 Max	0.040 Max	0.15 to 0.30	0.15 Max	0.20 Max	0.05 Max	0.35 Max/ 0.010 to 0.03

Mechanical Properties

API	Yield Strength	Tensile Strength	Elongation %	Reduction %	Heat
Grade	ksi (MPa)	ksi (MPa)	(8 in.) 8 in.		Treatment
C Carbon	90 (620)	100 to 115 (689 to 792)	13 Min	55 M in	Quenched and Tempered

Specified Torque Limit²

Rod Size in. (mm)	0.750 (19.05)	0.875 (22.23)	1.000 (25.40)	1.125 (28.58)
ft-lb (Nm) ²	435 (590)	685 (929)	1,025 (1,390)	1,460 (1,979)

Maximum Allowed Stress Calculation

 $(T/2.8 + 0.375 S_{MIN}) * SF$



LR OR LP

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Provided satisfactory corrosion-inhibiting practices are followed.
Weatherford recommends Hi-T couplings and applying a service factor to the specified-torque limit based on operating conditions.
Please refer to Weatherford engineering bulletin TB-135 for further guidance on torque limits.