TECHNICAL SHEET

API Sucker Rods

Rods and Couplings to API 11B

API grade and high-strength rod strings, with matching couplings, for beam pumping and progressive cavity applications.

BROWNFIELD
OIL TOOLS



API SUCKER ROD BUNDLES

5/8–1-1/8 in	**25 / 30 ft**	**API 11B**	**140 ksi**
Rod body diameters	Standard rod lengths	Grades C, K and D	Max. API grade tensile

Brownfield supplies API Grade C, K and D sucker rods, high-strength rods and matching couplings for beam and progressive cavity pumping.

Every rod is heat treated and finished with pin ends machined and cold-rolled to API threads. Rolling displaces the steel instead of cutting it, which work-hardens the thread root where fatigue failures usually begin. Grade, colour code and heat treatment are traceable on every order.

Applications

- Beam pumping: conventional rod strings
- Progressive cavity pumping: rod strings for PCP wells
- Deep, heavily loaded wells: high-strength rods

Benefits

- Grade matched to load, depth and corrosion
- Rolled threads: higher fatigue strength
- Rods, pony rods and couplings from one source

Technical data

Standard	API Specification 11B
Rod body diameter (in.)	5/8 · 3/4 · 7/8 · 1 · 1-1/8
Nominal pin diameter (in.)	15/16 · 1-1/16 · 1-3/16 · 1-3/8 · 1-9/16
Wrench square (in.)	7/8 · 1 · 1 · 1-5/16 · 1-1/2
Standard lengths	25 ft (7.6 m) and 30 ft (9.1 m)
Pony rod lengths	2, 4, 6, 8 and 10 ft, same grades as the rods
Weight of 25 ft rod, lb	27.2 · 38.5 · 52.0 · 69.9 · 88.7
API colour codes	C white · K blue · D carbon brown · D Cr-Mo yellow · D alloy orange
Steel types	C: 1536 · K: 4623 · D: 1541, 4142, 4720
Heat treatment	N&T: normalized and tempered · Q&T: quenched and tempered
Threads	Cold-rolled API threads on all pin ends
Couplings	API Grade T and Grade SM (spray metal), 5/8 – 1-1/8 in.
Coupling versions	Standard, oversize and slim-hole

Rod grade	Yield, ksi	Tensile, ksi	Hardness, HB	Heat treatment
Grade C	60 min	90–115	185–240	Normalized
Grade K	60 min	90–115	185–231	Norm. & temp.
Grade D	85 min	115–140	240–294	Norm. & temp.
High-strength, N&T	115 min	140–150	286–319	Norm. & temp.
High-strength, Q&T	130–145	140–155	285–311	Quench. & temp.

To request a quotation

1. Well depth and pump setting depth
2. Tubing size and pump bore
3. Pumping unit rating, stroke length and speed
4. Fluid: water cut, viscosity, sand, scale
5. Corrosion: CO2, H2S, inhibition programme
6. Quantity, grade, size, length, coupling type

Data needed for string design

Pumping method (beam or progressive cavity) · well geometry: deviation, dog-legs, horizontal sections · rod grade, size and length · coupling type

Talk to our engineering team about your well

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