



SUCKER RODS

Reduce the potential of costly breakdown during operation with Shawcor Oilfield Asset Management's sucker rod solutions.

END-TO-END SOLUTION

The true value of our sucker rod product line lies in the complete solution we provide to customers. After reviewing your specific requirements we put together a customized package of:

- Rods
- Inspections
 - Visual
 - EMI
- Scraper removal
- Cleaning
- Painting
- Repair
- Guide Installation
- Management Services

Our services allow for efficient and cost-effective project management.

BUYBACK PROGRAM

We have a buyback program that allows customers to return sucker rods that are no longer safe to use for a credit. This reduces the logistics costs of removal, storage, handling and associated labor.

BUILT TOUGH

Manufactured from AISI A-4142 steel, AISI A-4320 steel and AISI A-4330 steel Shawcor's sucker rods are perfect for moderate to extra heavy pumping applications when used in conjunction with an effective corrosion inhibition program. Our products are manufactured in an API 11B and ISO certified mill resulting in superior quality, which extends the lifetime use of your assets. Mill test certificates are available upon request for quality assurance.

**14 YEARS OF
EXPERIENCE
RESULTING IN
SERVICE YOU
CAN TRUST.**

5/8" - 1 1/4"
(15 mm - 31.75 mm)
SIZES

- Manufactured to API 11B
- Reconditioning sucker rods offers up to 40% savings versus new rods
- Online customer inventory updates

Our extensive selection of new and reconditioned rods easily overcome challenges dictated by wellbore profiles, load designs and corrosive conditions.



ROD AND COUPLING DIMENSIONS

| SUCKER RODS AND PONIES | | COUPLINGS | | |
|------------------------|-----------------|--------------------|------------------|-------------------|
| Rod Size (in.) | Width of Wrench | Nominal Size (in.) | Outside Diameter | Minimum Tubing OD |
| | Flat +/- 1/32 | 5/8 | 1 1/2 | 2 1/16 |
| 5/8 | 7/8 | 3/4 | 1 5/8 | 2 3/8 |
| 3/4 | 1 | 7/8 SH* | 1 5/8 | 2 3/8 |
| 7/8 | 1 | 7/8 | 1 13/16 | 2 7/8 |
| 1 | 1 5/16 | 1 SH* | 2 | 2 7/8 |
| 1 1/8 | 1 1/2 | 1 | 2 3/16 | 3 1/2 |
| | | 1 1/8 | 2 3/8 | 3 1/2 |

*API SPEC 11B

*SH - Slim Hole

| SUCKER ROD COLOR CODES | |
|--------------------------------|--------|
| Grade | Color |
| API Grade C | White |
| API Grade K | Blue |
| API Grade D (Carbon) | Brown |
| API Grade D (CMA) | Yellow |
| API Grade D (SA) | Orange |
| Special Service (High Tensile) | Green |

API SUCKER ROD MAXIMUM PULL LOAD CHART

THIS TABLE GIVES THE MAXIMUM PULL LOAD THAT MAY BE APPLIED TO THE SMALLEST ROD IN A SUCKER ROD STRING. CHART VALUES ASSURE A STEADY SLOW PULL WITH NO JERK OR PULL THAT RUNS INTO THE LOAD. (FOR USE ON STUCK PUMPS – ALL LOADS GIVEN IN POUNDS – FORCE)

| Rod Size (in.) | Grade C min. yield 60,000 psi | Grade K min. yield 60,000 psi | Grade D (Carbon) min. yield 85,000 psi | Grade D (Alloy) min. yield 105,100 psi |
|----------------|-------------------------------|-------------------------------|--|--|
| 5/8 | 4,138,733 | 4,138,733 | 5,861,893 | 7,242,220 |
| 3/4 | 5,959,685 | 5,959,685 | 8,441,576 | 10,428,887 |
| 7/8 | 8,111,107 | 8,111,107 | 11,489,985 | 14,194,437 |
| 1 | 10,594,121 | 10,594,121 | 15,007,121 | 18,539,994 |
| 1 1/8 | 13,408,729 | 13,408,729 | 18,994,108 | 23,464,434 |

Caution: Load figures are based on the capacity of new steel. Sucker rods that have been in service for an extended period may break under quoted loads. Courtesy American Petroleum Institute.

| RECOMMENDED MAKE-UP DISPLACEMENT (INCHES) | | | | |
|---|-----------------------------|-----------------------------|----------------------------------|----------------------------------|
| Rod Size (in.) | Running New Grade D Minimum | Running New Grade D Maximum | Rerunning Grades C, D, K Minimum | Rerunning Grades C, D, K Maximum |
| 5/8 | 8/32 | 9/32 | 6/32 | 8/32 |
| 3/4 | 9/32 | 11/32 | 7/32 | 17/32 |
| 7/8 | 11/32 | 12/32 | 9/32 | 23/32 |
| 1 | 14/32 | 16/32 | 12/32 | 14/32 |
| 1 1/8 | 18/32 | 21/32 | 16/32 | 19/32 |

Shawcor Ltd. is a global energy services company specializing in products and services for the pipeline and pipe services segment of the oil and gas industry and related products for petrochemical and industrial markets. The Company operates through a network of fixed and mobile manufacturing and service facilities located around the world and is valued for its integrity, technology, and proven capability to execute the most complex projects in our industry.