
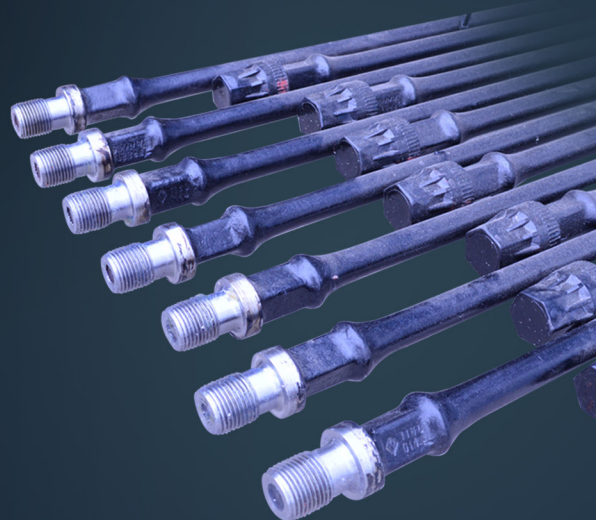


# SUCKER RODS AND COUPLINGS

OPTIMIZE YOUR ROD STRING COMPLETION FOR YOUR PCP OPERATIONS

keep it moving 



Sucker Rods, Pony Rods, Polished Rods & Couplings are designed to withstand the high levels of load and torque that are generated by PCP's and surface drivers.

In order to meet various market needs in terms of strength & torque, PCM is able to provide several grades of sucker rods.

## BENEFITS

- Deliver sufficient torque to drive PCP
- High strength sucker rod available
- High Alloy sucker rods available for corrosive environment (option)
- Pony rods allow to adjust the rod string length to ensure the correct position of the rotor and suitable polished rod stick-up

## SUCKER ROD RANGE, MATERIAL GRADE, TORQUE

SIZE	AVAILABLE LENGTH FT	ROD WEIGHT	ROD TORQUE STANDARD* [grade D AISI 4142]	ROD TORQUE HIGH STRENGTH* [grade D HS AISI 4330M]
3/4"	2, 4, 6, 8, 10, 12, 25, 30	2.41 kg/m - 1.62 lbs/ft	620 Nm / 470 ft.lbs	680 Nm / 500 ft.lbs
7/8"	2, 4, 6, 8, 10, 12, 25, 30	3.26 kg/m - 2.19 lbs/ft	1000 Nm / 750 ft.lbs	1085 Nm / 800 ft.lbs
1"	2, 4, 6, 8, 10, 12, 25, 30	4.30 kg/m - 2.89 lbs/ft	1505 Nm / 1110 ft.lbs	1620 Nm / 1200 ft.lbs
1 1/8"	2, 4, 6, 8, 10, 12, 25, 30	5.48 kg/m - 3.68 lbs/ft	2130 Nm / 1570 ft.lbs	2305 Nm / 1700 ft.lbs
1 1/4"	2, 4, 6, 8, 10, 12, 25, 30	6.65 kg/m - 4.47 lbs/ft	2840 Nm / 2100 ft.lbs	3390 Nm / 2500 ft.lbs
1 1/2"	2, 4, 6, 8, 10, 12, 25, 30	9.27 kg/m - 6.23 lbs/ft	4270 Nm / 3150 ft.lbs	5084 Nm / 3750 ft.lbs

\* Recommended operation torque at 80% of Rod Torque

MATERIAL GRADE	GRADE D	GRADE D HS
Tensile	793-965 MPa	930-1050 MPa
Yield	586 MPa	720 MPa



Artificial Lift Solutions

› SUCKER ROD PIN

SUCKER ROD SIZE BODY	PIN THREAD SIZE
7/8"	API 1"3/16
1"	API 1"3/8
1" MOD	API 1"3/16
1"1/8	API 1"9/16
1"1/4	API 1"3/8
1"1/2	API 1"9/16

› SUCKER ROD & RIG WEIGHT

SUCKER ROD SIZE	MAX LOAD GRADE D	MAX LOAD GRADE D HS
7/8"	48 700 lbs / 21 660 daN	62 200 lbs / 27 660 daN
1"	63 600 lbs / 28 300 daN	82 2500 lbs / 36 140 daN
1"1/8	80 500 lbs / 35 800 daN	102 800 lbs / 45 760 daN
1"1/4	99 400 lbs / 44 200 daN	127 000 lbs / 56 490 daN
1"1/2	143 000 lbs / 63 600 daN	182 000 lbs / 80 957 daN

› COUPLINGS & TECHNICAL DATA

Couplings are used to connect:

- Sucker Rod to Sucker Rod with coupling type CG100100AFPT (coupling for sucker rod 1" – 1")
- OR • Polished Rod to Sucker Rod type with coupling CG100100PFPT (coupling for Polished Rod 1"1/2 – 1")

Couplings are existing :

- in Full Size with coupling type CG100100AFPT (Full Size coupling for sucker rod 1" – 1")
- OR • Slim hole with coupling type CG100100AHPT (Slim Hole coupling for sucker rod 1" – 1")

Coupling torque is similar to equivalent Sucker Rod torque.

**Note:** Slimhole couplings are used to increase clearance in the tubing when required.

› LIST OF ITEMS

ITEM CODE	DESIGNATION	TOP ROD CONNECTION	BOTTOM ROD CONNECTION	POLISHED ROD COUPLINGS	OUTSIDE DIAMETER MM
CG034034AFPT	COUPLING 3/4 3/4 FS SR	3/4"	3/4"		41.3
CG078034AFPT	COUPLING 7/8 3/4 FS SR	7/8"	3/4"		46
CG078034AHPT	COUPLING 7/8 x 3/4 SH SR	7/8"	3/4"		41.3
CG078078AFPT	COUPLING 7/8 X 7/8 FS	7/8"	7/8"		46
CG078078AHPT	COUPLING 7/8 7/8 SH SR	7/8"	7/8"		41.2
CG078078PFPT	COUPLING 7/8 7/8 FS PR	7/8"	7/8"	for P. Rod 1"1/4 and SR 7/8"	46
CG078078PHPT	COUPLING 7/8 7/8 SH PR	7/8"	7/8"	for P. Rod 1"1/4 and SR 7/8"	41.3
CG100034AFPT	COUPLING 1 3/4 FS SR	1"	3/4"		55.6
CG100078AFPT	COUPLING 1 7/8 FS SR	1"	7/8"		55.6
CG100078AHPT	COUPLING 1 7/8 SH SR	1"	7/8"		50.8
CG100078PFPT	COUPLING 1 7/8 FS PR	1"	7/8"	for P. Rod 1"1/2 and SR 7/8 or P. Rod 1"1/4 and SR 1"	55.6
CG100100AFPT	COUPLING 1 1 FS SR	1"	1"		55.6
CG100100AHPT	COUPLING 1 1 SH SR	1"	1"		50.8
CG100100PHPT	COUPLING 1 1 SH PR	1"	1"	for P. Rod 1"1/2 and SR 1"	50.8
CG112112XAFPT	CPLG 1 1/2 1 1/2 FS SR	1"1/2	1"1/2		60.3
CG112114XAHPT	CPLG 1 1/2 1 1/4 SH SR	1"1/2	1"1/4		55.6
CG118078AFPT	COUPLING 1 1/8 7/8 FS SR	1"1/8	7/8"		60.3
CG118078PHPT	COUPLING 1 1/8 7/8 SH PR	1"1/8	7/8"		55.6
CG118100AFPT	COUPLING 1 1/8 1 FS SR	1"1/8	1"		60.3
CG118100AHPT	COUPLING 1 1/8 1 SH SR	1"1/8	1"		55.6
CG118100PFPT	COUPLING 1 1/8 1 FS PR	1"1/8	1"	for P. Rod 1"1/2 and SR 1"1/8	60.3
CG118118AFPT	CPLG 1 1/8 1 1/8 FS SR	1"1/8	1"1/8		60.3
CG118118AHPT	CPLG 1 1/8 1 1/8 SH SR	1"1/8	1"1/8		55.6

For further information, please contact your PCM local representative :

[www.pcmals.com](http://www.pcmals.com)