



Handy Formulas:

Produced BFPD = Pump Factor x SPM x Plunger Stroke @100% Efficiency

Bore Factors: 1-1/4" = .182	1-1/2" = .262	1-3/4" = .357	2" = .466
2-1/4" = .590	2-1/2" = .728	2-3/4" = .881	3-1/4" = 1.231

Metric	1bbl = 42 US gal = .158990 m ³	1m ³ = 6.2897 Barrels
Conversions	1 metre = 3.28 ft	1 ft = .3048 metres
	1 kilogram = 2.2046 lbs	1lb = .45359 kilograms
	1 kPpa = .14503 psi	1 psi = 6.895 kPpa

Sucker Rod Coupling Data:

Coupling Size	Rod Size	Box Size	Outside Diameter		Coupling Length
			Full Size	Slim Hole	
5/8"	5/8"	15/16	1-1/2"	1-1/4"	4"
3/4"	3/4"	1-1/16"	1-5/8"	1-1/2"	4"
7/8"	7/8"	1-3/16"	1-13/16"	1-5/8"	4"
1"	1"	1-3/8"	2-3/16"	2"	4"
1-1/8"	1-1/8"	1-9/16"	2-3/8"	2-3/16"	4-1/2"

Tubing Data:

Normal Size	OD	Drift	Capacity Bbl/1000ft	Maximum Rod Size	
				Std.---Coupling---	Slim
1-1/2"	1.900"	1.516"	2.24	--	5/8
1-3/4"	2-1/16"	1.657"	2.67	5/8	3/4
2"	2-3/8"	1.901"	3.88	3/4	7/8
2-1/2"	2-7/8"	2.347"	5.80	7/8	1
3"	3-1/2"	2.867"	8.78	1-1/8	---

Sucker Rod Data:

Rod Size	Dry Wt Pounds/1000'	Area (In ²)	Pin Size	Max Recommended Load*, lb.			
				API Gr K	C	D	S-88
5/8	1,140	0.307	15/16"	14,700	14,700	20,500	31,900
3/4	1,620	0.442	1-1-16"	21,200	21,200	30,000	45,900
7/8	2,155	0.601	1-3/16"	28,800	28,800	40,800	62,500
1	2,900	0.785	1-3/8"	37,600	37,600	53,300	81,600
1-1/8	3,672	0.994	1-9/16"	47,500	47,500	67,000	100,000

Seating Nipples:

Tubing Size	Seal Bore +.010"/-.000"	
	Type	Length
1-1/2"	API -3 Cup	9
1-3/4"	API- 3 Cup	9
2"	API- 3 Cup	12
2"	API- 2 Cup TP	9
2-1/2"	API- 3 Cup	12
2-1/1"	API- 2 Cup TP	10
3"	API- 3 Cup	12
3"	API- 3 Cup TP	10

Note: Call for information on - Pacific, Otis, Baker or Camco nipples