

**NATIONAL OILWELL****MISSION PRODUCTS GROUP****1847-A**

| PUMP | English Units | | | | | 20 RPM | | 40 RPM | | 60 RPM | | 80 RPM | | 100 RPM | |
|----------------------------------|-----------------|---------------------|-------------|-------------|-----------------|----------|------|-----------|------|-----------|------|-----------|-------|-----------|-------|
| | Piston Dia. In. | Piston Area Sq. In. | BPD per RPM | GPM per RPM | Max. Press. PSI | BPD | GPM | BPD | GPM | BPD | GPM | BPD | GPM | BPD | GPM |
| | 1847-A | 2.500 | 4.9087 | 15.7680 | 0.4599 | 988 | 316 | 9.2 | 631 | 18.4 | 947 | 27.6 | 1262 | 36.8 | 1577 |
| 3.000 | | 7.0686 | 23.4480 | 0.6839 | 686 | 469 | 13.7 | 938 | 27.4 | 1407 | 41.0 | 1876 | 54.7 | 2345 | 68.4 |
| 3.500 | | 9.6211 | 32.3520 | 0.9436 | 504 | 648 | 18.9 | 1295 | 37.7 | 1942 | 56.6 | 2589 | 75.5 | 3236 | 94.4 |
| 4.000 | | 12.5664 | 42.9120 | 1.2516 | 386 | 859 | 25.0 | 1717 | 50.1 | 2575 | 75.1 | 3433 | 100.1 | 4292 | 125.2 |
| 4.500 | | 15.9043 | 54.8640 | 1.6002 | 305 | 1098 | 32.0 | 2195 | 64.0 | 3292 | 96.0 | 4390 | 128.0 | 5487 | 160.0 |
| Brake Horsepower Required | | | | | | 6 | | 12 | | 19 | | 25 | | 31 | |

| PUMP | Metric Units | | | | | 20 RPM | | 40 RPM | | 60 RPM | | 80 RPM | | 100 RPM | |
|---------------------------|-----------------|------------------------------|----------------------------|----------------|-----------------|--------------------|--------|--------------------|--------|--------------------|--------|--------------------|--------|--------------------|--------|
| | Plunger Dia. cm | Plunger Area cm ² | M ³ /Hr per RPM | L/Sec. per RPM | Max. Press. kPa | M ³ /Hr | L/Sec. | M ³ /Hr | L/Sec. | M ³ /Hr | L/Sec. | M ³ /Hr | L/Sec. | M ³ /Hr | L/Sec. |
| | 1847-A | 64 | 31.669 | 0.1044 | 0.0290 | 6812 | 2.1 | 0.6 | 4.2 | 1.2 | 6.3 | 1.7 | 8.4 | 2.3 | 10.4 |
| 76 | | 45.604 | 0.1553 | 0.0431 | 4731 | 3.1 | 0.9 | 6.2 | 1.7 | 9.3 | 2.6 | 12.4 | 3.5 | 15.5 | 4.3 |
| 89 | | 62.072 | 0.2143 | 0.0595 | 3476 | 4.3 | 1.2 | 8.6 | 2.4 | 12.9 | 3.6 | 17.1 | 4.8 | 21.4 | 6.0 |
| 102 | | 81.073 | 0.2842 | 0.0790 | 2661 | 5.7 | 1.6 | 11.4 | 3.2 | 17.1 | 4.7 | 22.7 | 6.3 | 28.4 | 7.9 |
| 114 | | 102.608 | 0.3634 | 0.1010 | 2103 | 7.3 | 2.0 | 14.5 | 4.0 | 21.8 | 6.1 | 29.1 | 8.1 | 36.3 | 10.1 |
| Kilowatts Required | | | | | | 5 | | 9 | | 14 | | 19 | | 23 | |

RPM shown is Crankshaft speed. For Pinion Shaft speed, multiply RPM by Gear Ratio.

Volumetric Rate is based on 100% Volumetric Efficiency. Brake Horsepower/Kilowatts Required is based on 85% Mechanical Efficiency.



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