



NATIONAL OILWELL

MISSION PRODUCTS GROUP

350Q-5 (Q350)

| PUMP | English Units | | | | | 100 RPM | | 150 RPM | | 200 RPM | | 250 RPM | | 300 RPM | | 360 RPM | |
|----------------------------------|------------------|----------------------|-------------|-------------|-----------------|------------|------------|------------|------------|------------|-------|---------|-------|---------|-------|---------|-------|
| | Plunger Dia. In. | Plunger Area Sq. In. | BPD per RPM | GPM per RPM | Max. Press. PSI | BPD | GPM | BPD | GPM | BPD | GPM | BPD | GPM | BPD | GPM | BPD | GPM |
| 350Q-5L (Q350-4) | 4.000 | 12.5664 | 46.6284 | 1.3600 | 1102 | 4663 | 136.0 | 6995 | 204.0 | 9326 | 272.0 | 11658 | 340.0 | 13989 | 408.0 | 16787 | 489.6 |
| | 3.875 | 11.7932 | 43.7597 | 1.2763 | 1174 | 4376 | 127.6 | 6564 | 191.4 | 8752 | 255.3 | 10940 | 319.1 | 13128 | 382.9 | 15754 | 459.5 |
| | 3.750 | 11.0447 | 40.9820 | 1.1953 | 1254 | 4099 | 119.5 | 6148 | 179.3 | 8197 | 239.1 | 10246 | 298.8 | 12295 | 358.6 | 14754 | 430.3 |
| | 3.625 | 10.3206 | 38.2954 | 1.1169 | 1342 | 3830 | 111.7 | 5745 | 167.5 | 7660 | 223.4 | 9574 | 279.2 | 11489 | 335.1 | 13787 | 402.1 |
| | 3.500 | 9.6211 | 35.6999 | 1.0412 | 1440 | 3570 | 104.1 | 5355 | 156.2 | 7140 | 208.2 | 8925 | 260.3 | 10710 | 312.4 | 12852 | 374.8 |
| | 3.375 | 8.9462 | 33.1954 | 0.9682 | 1548 | 3320 | 96.8 | 4980 | 145.2 | 6640 | 193.6 | 8299 | 242.1 | 9959 | 290.5 | 11951 | 348.6 |
| 350Q-5M (Q350-3) | 3.250 | 8.2958 | 30.7820 | 0.8978 | 1670 | 3079 | 89.8 | 4618 | 134.7 | 6157 | 179.6 | 7696 | 224.5 | 9235 | 269.3 | 11082 | 323.2 |
| | 3.250 | 8.2958 | 30.7820 | 0.8978 | 1670 | 3079 | 89.8 | 4618 | 134.7 | 6157 | 179.6 | 7696 | 224.5 | 9235 | 269.3 | 11082 | 323.2 |
| | 3.125 | 7.6699 | 28.4597 | 0.8301 | 1806 | 2846 | 83.0 | 4269 | 124.5 | 5692 | 166.0 | 7115 | 207.5 | 8538 | 249.0 | 10246 | 298.8 |
| | 3.000 | 7.0686 | 26.2285 | 0.7650 | 1959 | 2623 | 76.5 | 3935 | 114.7 | 5246 | 153.0 | 6558 | 191.2 | 7869 | 229.5 | 9443 | 275.4 |
| | 2.875 | 6.4918 | 24.0883 | 0.7026 | 2133 | 2409 | 70.3 | 3614 | 105.4 | 4818 | 140.5 | 6023 | 175.6 | 7227 | 210.8 | 8672 | 252.9 |
| | 2.750 | 5.9396 | 22.0392 | 0.6428 | 2332 | 2204 | 64.3 | 3306 | 96.4 | 4408 | 128.6 | 5510 | 160.7 | 6612 | 192.8 | 7935 | 231.4 |
| | 2.625 | 5.4119 | 20.0812 | 0.5857 | 2559 | 2009 | 58.6 | 3013 | 87.9 | 4017 | 117.1 | 5021 | 146.4 | 6025 | 175.7 | 7230 | 210.9 |
| | 2.500 | 4.9087 | 18.2142 | 0.5312 | 2822 | 1822 | 53.1 | 2733 | 79.7 | 3643 | 106.2 | 4554 | 132.8 | 5465 | 159.4 | 6558 | 191.2 |
| | 2.375 | 4.4301 | 16.4383 | 0.4795 | 3126 | 1644 | 47.9 | 2466 | 71.9 | 3288 | 95.9 | 4110 | 119.9 | 4932 | 143.8 | 5918 | 172.6 |
| | 2.250 | 3.9761 | 14.7535 | 0.4303 | 3483 | 1476 | 43.0 | 2214 | 64.5 | 2951 | 86.1 | 3689 | 107.6 | 4427 | 129.1 | 5312 | 154.9 |
| 350Q-5H (Q350-2) | 2.250 | 3.9761 | 14.7535 | 0.4303 | 3483 | 1476 | 43.0 | 2214 | 64.5 | 2951 | 86.1 | 3689 | 107.6 | 4427 | 129.1 | 5312 | 154.9 |
| | 2.125 | 3.5466 | 13.1598 | 0.3838 | 3905 | 1316 | 38.4 | 1974 | 57.6 | 2632 | 76.8 | 3290 | 96.0 | 3948 | 115.1 | 4738 | 138.2 |
| | 2.000 | 3.1416 | 11.6571 | 0.3400 | 4409 | 1166 | 34.0 | 1749 | 51.0 | 2332 | 68.0 | 2915 | 85.0 | 3498 | 102.0 | 4197 | 122.4 |
| | 1.875 | 2.7612 | 10.2455 | 0.2988 | 5016 | 1025 | 29.9 | 1537 | 44.8 | 2050 | 59.8 | 2562 | 74.7 | 3074 | 89.6 | 3689 | 107.6 |
| | 1.750 | 2.4053 | 8.9250 | 0.2603 | 5758 | 893 | 26.0 | 1339 | 39.0 | 1785 | 52.1 | 2232 | 65.1 | 2678 | 78.1 | 3213 | 93.7 |
| | 1.625 | 2.0739 | 7.6955 | 0.2245 | 6000 | 770 | 22.4 | 1155 | 33.7 | 1540 | 44.9 | 1924 | 56.1 | 2309 | 67.3 | 2771 | 80.8 |
| 1.500 | 1.7671 | 6.5571 | 0.1912 | 6000 | 656 | 19.1 | 984 | 28.7 | 1312 | 38.2 | 1640 | 47.8 | 1968 | 57.4 | 2361 | 68.8 | |
| Brake Horsepower Required | | | | | 98 | 146 | 195 | 243 | 292 | 350 | | | | | | | |

| PUMP | Metric Units | | | | | 100 RPM | | 150 RPM | | 200 RPM | | 250 RPM | | 300 RPM | | 360 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. | M ³ /Hr | L/Sec. |
| 350Q-5L (Q350-4) | 102 | 81.073 | 0.3089 | 0.0858 | 7599 | 30.9 | 8.6 | 46.3 | 12.9 | 61.8 | 17.2 | 77.2 | 21.5 | 92.7 | 25.7 | 111.2 | 30.9 |
| | 98 | 76.085 | 0.2899 | 0.0805 | 8097 | 29.0 | 8.1 | 43.5 | 12.1 | 58.0 | 16.1 | 72.5 | 20.1 | 87.0 | 24.2 | 104.3 | 29.0 |
| | 95 | 71.256 | 0.2715 | 0.0754 | 8646 | 27.1 | 7.5 | 40.7 | 11.3 | 54.3 | 15.1 | 67.9 | 18.9 | 81.4 | 22.6 | 97.7 | 27.1 |
| | 92 | 66.584 | 0.2537 | 0.0705 | 9253 | 25.4 | 7.0 | 38.0 | 10.6 | 50.7 | 14.1 | 63.4 | 17.6 | 76.1 | 21.1 | 91.3 | 25.4 |
| | 89 | 62.072 | 0.2365 | 0.0657 | 9925 | 23.6 | 6.6 | 35.5 | 9.9 | 47.3 | 13.1 | 59.1 | 16.4 | 70.9 | 19.7 | 85.1 | 23.6 |
| | 86 | 57.717 | 0.2199 | 0.0611 | 10674 | 22.0 | 6.1 | 33.0 | 9.2 | 44.0 | 12.2 | 55.0 | 15.3 | 66.0 | 18.3 | 79.2 | 22.0 |
| 350Q-5M (Q350-3) | 83 | 53.521 | 0.2039 | 0.0566 | 11511 | 20.4 | 5.7 | 30.6 | 8.5 | 40.8 | 11.3 | 51.0 | 14.2 | 61.2 | 17.0 | 73.4 | 20.4 |
| | 83 | 53.521 | 0.2039 | 0.0566 | 11511 | 20.4 | 5.7 | 30.6 | 8.5 | 40.8 | 11.3 | 51.0 | 14.2 | 61.2 | 17.0 | 73.4 | 20.4 |
| | 79 | 49.483 | 0.1885 | 0.0524 | 12450 | 18.9 | 5.2 | 28.3 | 7.9 | 37.7 | 10.5 | 47.1 | 13.1 | 56.6 | 15.7 | 67.9 | 18.9 |
| | 76 | 45.604 | 0.1737 | 0.0483 | 13510 | 17.4 | 4.8 | 26.1 | 7.2 | 34.7 | 9.7 | 43.4 | 12.1 | 52.1 | 14.5 | 62.5 | 17.4 |
| | 73 | 41.883 | 0.1596 | 0.0443 | 14710 | 16.0 | 4.4 | 23.9 | 6.6 | 31.9 | 8.9 | 39.9 | 11.1 | 47.9 | 13.3 | 57.4 | 16.0 |
| | 70 | 38.320 | 0.1460 | 0.0406 | 16077 | 14.6 | 4.1 | 21.9 | 6.1 | 29.2 | 8.1 | 36.5 | 10.1 | 43.8 | 12.2 | 52.6 | 14.6 |
| | 67 | 34.915 | 0.1330 | 0.0370 | 17645 | 13.3 | 3.7 | 20.0 | 5.5 | 26.6 | 7.4 | 33.3 | 9.2 | 39.9 | 11.1 | 47.9 | 13.3 |
| | 64 | 31.669 | 0.1206 | 0.0335 | 19454 | 12.1 | 3.4 | 18.1 | 5.0 | 24.1 | 6.7 | 30.2 | 8.4 | 36.2 | 10.1 | 43.4 | 12.1 |
| 350Q-5H (Q350-2) | 60 | 28.581 | 0.1089 | 0.0302 | 21555 | 10.9 | 3.0 | 16.3 | 4.5 | 21.8 | 6.0 | 27.2 | 7.6 | 32.7 | 9.1 | 39.2 | 10.9 |
| | 57 | 25.652 | 0.0977 | 0.0271 | 24017 | 9.8 | 2.7 | 14.7 | 4.1 | 19.5 | 5.4 | 24.4 | 6.8 | 29.3 | 8.1 | 35.2 | 9.8 |
| | 57 | 25.652 | 0.0977 | 0.0271 | 24017 | 9.8 | 2.7 | 14.7 | 4.1 | 19.5 | 5.4 | 24.4 | 6.8 | 29.3 | 8.1 | 35.2 | 9.8 |
| | 54 | 22.881 | 0.0872 | 0.0242 | 26926 | 8.7 | 2.4 | 13.1 | 3.6 | 17.4 | 4.8 | 21.8 | 6.1 | 26.2 | 7.3 | 31.4 | 8.7 |
| | 51 | 20.268 | 0.0772 | 0.0215 | 30396 | 7.7 | 2.1 | 11.6 | 3.2 | 15.4 | 4.3 | 19.3 | 5.4 | 23.2 | 6.4 | 27.8 | 7.7 |
| | 48 | 17.814 | 0.0679 | 0.0189 | 34584 | 6.8 | 1.9 | 10.2 | 2.8 | 13.6 | 3.8 | 17.0 | 4.7 | 20.4 | 5.7 | 24.4 | 6.8 |
| 350Q-5H (Q350-2) | 44 | 15.518 | 0.0591 | 0.0164 | 39701 | 5.9 | 1.6 | 8.9 | 2.5 | 11.8 | 3.3 | 14.8 | 4.1 | 17.7 | 4.9 | 21.3 | 5.9 |
| | 41 | 13.380 | 0.0510 | 0.0142 | 41369 | 5.1 | 1.4 | 7.6 | 2.1 | 10.2 | 2.8 | 12.7 | 3.5 | 15.3 | 4.2 | 18.4 | 5.1 |
| | 38 | 11.401 | 0.0434 | 0.0121 | 41369 | 4.3 | 1.2 | 6.5 | 1.8 | 8.7 | 2.4 | 10.9 | 3.0 | 13.0 | 3.6 | 15.6 | 4.3 |
| Kilowatts Required | | | | | 73 | 109 | 145 | 181 | 217 | 261 | | | | | | | |

Volumetric Rate is based on 100% Volumetric Efficiency. Brake Horsepower/Kilowatts Required is based on 90% Mechanical Efficiency.

Head Office:
6120 Davies Road
Edmonton, AB
T6E 4M9



Phone: (780) 485-2010 • Toll Free: (866) 707-7867
Fax: (780) 485-1938
• Calgary • Drayton Valley • Lethbridge
www.rotatingright.com