

Appendix C—Performance for C-Model (Close-Coupled) Pumps

C10 (60 Hz only)

| Service: Fill 20# cylinders in 30 seconds to 1 minute, 100# cylinders in 2-1/2 to 3-1/2 minutes, motor fueling through a meter at 7 gpm (26.5 L/min) ¹ | |
|---|-------------|
| Differential Pressure | gpm (L/min) |
| Capacity at 20 psid (1.4 bar d) | 12 (45.4) |
| Capacity at 50 psid (3.4 bar d) | 7 (26.5) |
| Capacity at 70 psid (5.2 bar d) | 3 (11.4) |

C12 (60 Hz only)

| Service: Fill 20# cylinders in 15 to 30 seconds, 100# I.C.C. cylinders in 2 to 3 minutes, motor fueling through a meter at 15 gpm (56.8 L/min) ¹ | |
|---|-------------|
| Differential Pressure | gpm (L/min) |
| Capacity at 20 psid (1.4 bar d) | 19 (71.9) |
| Capacity at 70 psid (4.8 bar d) | 12.5 (47.3) |
| Capacity at 85 psid (5.9 bar d) | 10 (37.9) |

C13

| Service: Fill 20# cylinders in 10 to 20 seconds, 100# cylinders in 1-1/2 minutes, motor fueling through a meter at 23 gpm (87.1 L/min) ¹ | |
|---|-------------|
| Differential Pressure | gpm (L/min) |
| Capacity at 20 psid (1.4 bar d) | 28 (106.0) |
| Capacity at 75 psid (5.2 bar d) | 16 (60.6) |
| Capacity at 100 psid (6.9 bar d) | 11.5 (43.5) |

C14

| Service: Fill 100# cylinders in less than one minute, motor fueling through a meter at 30 gpm (113.6 L/min) ¹ | |
|--|-------------|
| Differential Pressure | gpm (L/min) |
| Capacity at 20 psid (1.4 bar d) | 38 (143.8) |
| Capacity at 70 psid (4.8 bar d) | 26 (98.4) |
| Capacity at 100 psid (6.9 bar d) | 20 (75.7) |

C16

| Service: Motor fueling through a meter at 9.8 gpm at 150 psid. | |
|--|-------------|
| Differential Pressure | gpm (L/min) |
| Capacity at 75 psid (5.2 bar d) | 14.7 (55.6) |
| Capacity at 100 psid (6.9 bar d) | 13 (49.2) |
| Capacity at 125 psid (8.6 bar d) | 11.4 (43.1) |
| Capacity at 150 psid (10.3 bar d) | 9.8 (37.1) |

¹ Times are estimates and will be affected by conditions at the site, cylinder and OPD design. PSID is pounds per square inch differential or "differential pressure."