

# CPM SERIES High Pressure Reciprocating Plunger Pump



Over a century of experience has proven that Pentair's line of Myers® reciprocating pumps are designed and built with performance you can rely on. Our CPM Series high pressure reciprocating pumps combine manufacturing expertise and application understanding for a pump that is perfect for a variety of high pressure jobs.

|                            |                                  |
|----------------------------|----------------------------------|
| Crankcase                  | Cast Iron, CL30                  |
| Crankshaft                 | 4140 Heat Treated Forging        |
| Link                       | Ductile Iron, ASTM A536          |
| Crosshead                  | Ductile Iron, ASTM A536          |
| Pony Rod                   | 303 SST                          |
| Wrist Pin                  | CDS C1018 Carburize and Hardened |
| Crankshaft Main Bearing    | Tapered Roller                   |
| Crankshaft Journal Bearing | Steel/Babbitt Inserts            |
| Wrist Pin Bearing          | Bronze Bushing                   |
| Bearing Cap                | Cast Iron, CL30                  |
| Crankcase Cover            | Cast Iron, CL30                  |
| Drain Plug                 | Magnetic                         |

|                 |                        |                        |
|-----------------|------------------------|------------------------|
| Body Fluid End  | CDS 1211               | 316 SST                |
| Valve Cap       | CDS 1211               | 316 SST                |
| Valve           | Acetal                 | Acetal                 |
| Valve Seat      | 303 SST                | 316 SST                |
| Valve Spring    | 316 SST                | 316 SST                |
| Plunger         | Tech 23                | Tech 23                |
| Plunger Packing | Nitrile & Aramid Fiber | Nitrile & Aramid Fiber |

## Horsepower Performance Data

| C 24-30 |     |         |         |          |          |          |          |          |
|---------|-----|---------|---------|----------|----------|----------|----------|----------|
| GPM     | RPM | 250 psi | 500 psi | 1000 psi | 1500 psi | 2000 psi | 2500 psi | 3000 psi |
| 14      | 350 | 2.4     | 4.8     | 9.6      | 14.4     | 19.2     | 24.0     | 28.8     |
| 16      | 400 | 2.7     | 5.5     | 11.0     | 16.5     | 22.0     | 27.5     | 32.9     |
| 18      | 450 | 3.1     | 6.2     | 12.4     | 18.5     | 24.7     | 30.1     | 36.1     |
| 20      | 500 | 3.4     | 6.9     | 13.7     | 20.6     | 27.5     | 34.3     | 41.2     |
| 22      | 550 | 3.8     | 7.5     | 15.1     | 22.6     | 30.2     | 37.7     | 45.3     |
| 24      | 600 | 4.1     | 8.2     | 16.5     | 24.7     | 32.9     | 41.2     | 49.4     |

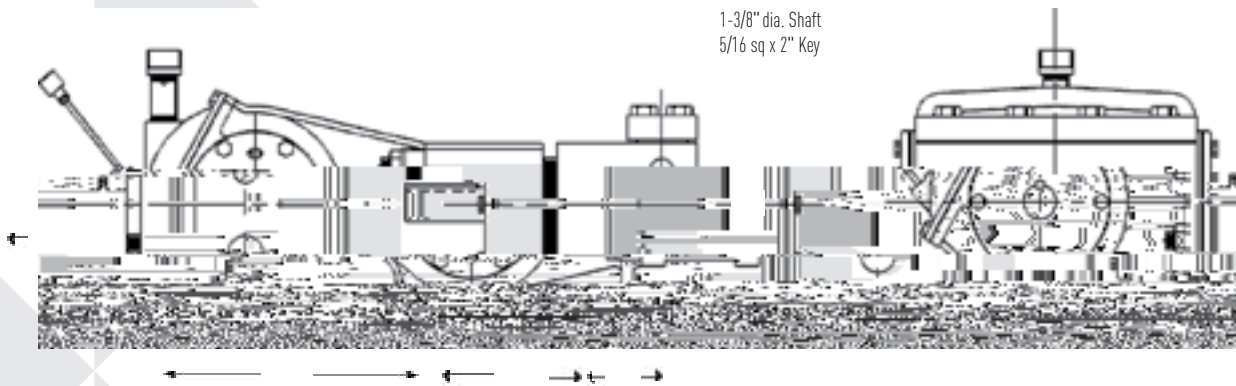
| C 18-40 |     |          |          |          |          |          |          |          |
|---------|-----|----------|----------|----------|----------|----------|----------|----------|
| GPM     | RPM | 1200 psi | 1600 psi | 2000 psi | 2800 psi | 3200 psi | 3600 psi | 4000 psi |
| 10      | 363 | 8        | 11       | 14       | 20       | 22       | 25       | 28       |
| 13      | 483 | 11       | 15       | 18       | 26       | 29       | 33       | 37       |
| 17      | 604 | 14       | 18       | 22       | 32       | 37       | 41       | 46       |
| 20      | 725 | 17       | 22       | 28       | 39       | 44       | 50       | 55       |

## Kilowatt Performance Data

| C 24-30 |     |         |         |          |          |          |          |          |
|---------|-----|---------|---------|----------|----------|----------|----------|----------|
| GPM     | RPM | 250 psi | 500 psi | 1000 psi | 1500 psi | 2000 psi | 2500 psi | 3000 psi |
| 14      | 350 | 1.8     | 3.6     | 7.2      | 10.8     | 14.4     | 18.0     | 21.6     |
| 16      | 400 | 2.0     | 4.1     | 8.2      | 12.3     | 16.4     | 20.5     | 24.6     |
| 18      | 450 | 2.3     | 4.6     | 9.2      | 13.8     | 18.4     | 23.0     | 27.6     |
| 20      | 500 | 2.5     | 5.0     | 10.0     | 15.0     | 20.0     | 25.0     | 30.0     |
| 22      | 550 | 2.8     | 5.6     | 11.2     | 16.8     | 22.4     | 28.0     | 33.6     |
| 24      | 600 | 3.1     | 6.2     | 12.4     | 18.6     | 24.8     | 31.0     | 37.2     |

- Horsepower required is based upon 85% overall efficiency.
- Formula (1) hp required =  $\frac{GPM \times psi}{1457}$  or kW =  $\frac{LPM \times bar}{511}$  (electric brake)

## CPM24-30 Dimensions



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