The V-10 Chemical Metering Pump

GENERAL INFORMATION
The V-10 is a high pressure, low volume, reciprocating plunger, positive displacement chemical metering pump. It is ideal for use in chemical feed to boilers, waste water treatment, the pulp and paper industry, and related applications where a controlled volume of chemical treatment is required.

CONSTRUCTION
The V-10 is designed for trouble free operation with a minimum of maintenance. Precision inline boring of the base casting insures exact alignment of the drive mechanism and the piston head assembly, minimizing wear. The drive mechanism is a heavy duty speed reducer, available in a number of ratios. Any 56C frame motor can be mounted on the heavy duty speed reducer making it easy to match the V-10 pump to special environments or electrical characteristics. The V-10 pump head is precision machined and has a ground and polished piston and double ball check valves on the inlet and outlet. The pump head comes standard in carbon steel but is available in various grades of stainless steel and the packing seals are available in Buna N, Viton, and Teflon. V-10 pump heads are available in numerous piston sizes from 1/4” to 2” to cover various pumping ranges and all are interchangeable on the same pump base casting. The pump is also available with multiple heads.
## PISTON PUMP MODEL NUMBERS

### MODEL
1. SIMPLEX-SINGLE DRIVE TO ONE PUMP HEAD
2. DUPLEX-SINGLE DRIVE TO TWO PUMP HEADS
3. TRIPLEX-SINGLE DRIVE TO THREE PUMP HEADS
4. QUAD-SINGLE DRIVE TO FOUR PUMP HEADS

### PISTON SIZE
2. 1/4" DIAMETER
3. 3/8" DIAMETER
4. 1/2" DIAMETER
5. 5/8" DIAMETER
7. 1 1/2" DIAMETER
8. 1" DIAMETER
9. 2" DIAMETER

### STROKING RATE
60. SIXTY STROKES PER MINUTE
30. THIRTY STROKES PER MINUTE
18. EIGHTEEN STROKES PER MINUTE
12. TWELVE STROKES PER MINUTE
06. SIX STROKES PER MINUTE
01. ONE STROKE PER MINUTE

### DRIVE
- 00. LESS ANY DRIVE AND BASEPLATE
- 0CD. LESS MOTOR (COUPLING DRIVE CONFIGURATION)
- 0FM. LESS MOTOR (FLANGE MOUNT CONFIGURATION)
- 3. 1/3 HP 120/240 VAC EXPLOSION PROOF FAN COOLED COUPLING DRIVE
- 4. 1/2 HP 120/240 VAC EXPLOSION PROOF FAN COOLED COUPLING DRIVE
- 6. 1/2 HP 240/480 VAC EXPLOSION PROOF FAN COOLED COUPLING DRIVE
- 12. 1/3 HP 120/240 VAC TOTALY ENCLOSUED FAN COOLED FLANGE MOUNT
- 13. 1/3 HP 120/240 VAC EXPLOSION PROOF FAN COOLED FLANGE MOUNT
- 14. 1/4 HP 90 VDC TOTALY ENCLOSUED NON-VENTILATED FLANGE MOUNT
- 14V. 1/2 HP 90 VDC TOTALY ENCLOSUED NON-VENTILATED FLANGE MOUNT
- 15. 1/4 HP 240/480 VAC TOTALY ENCLOSUED NON-VENTILATED FLANGE MOUNT
- 15V. 1/2 HP 240/480 VAC EXPLOSION PROOF FAN COOLED FLANGE MOUNT
- 16. 1/2 HP 240/480 VAC EXPLOSION PROOF FAN COOLED FLANGE MOUNT
- 17. 1/3 HP 575 VAC TOTALY ENCLOSUED FAN COOLED FLANGE MOUNT
- 18. 1/3 HP 115/230 VAC 50/60 HZ TOTALY ENCLOSUED FAN COOLED FLANGE MOUNT
- 19. 1/2 HP 240/480 VAC TOTALY ENCLOSUED NON-VENTILATED INVERTER DUTY FLANGE MOUNT
- 20. 1/2 HP 115/230 VAC TOTALY ENCLOSUED NON-VENTILATED SEVERE DUTY FLANGE MOUNT

### WET END
- BLANK
- 303. STAINLESS STEEL
- 316. STAINLESS STEEL
- C20. ALLOY 20 STAINLESS STEEL
- HC. ALLOY 276 STAINLESS STEEL

### MAXIMUM FULL STROKE OUTPUT PER PUMP HEAD SIZE AT VARIOUS STROKE RATES
VALUES BASED ON WATER
MINIMUM RECOMMENDED STROKE SETTING IS 20% OF MAXIMUM

### STROKE STROKE OUTPUT STROKE OUTPUT OUTPUT

<table>
<thead>
<tr>
<th>PILOT PUMP MODEL NUMBERS</th>
<th>V-7 MINI-PUMP</th>
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<tbody>
<tr>
<td>V-7-60</td>
<td>60 STROKES PER MINUTE</td>
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<tr>
<td>V-7-30</td>
<td>30 STROKES PER MINUTE</td>
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<tr>
<td>V-7-12</td>
<td>12 STROKES PER MINUTE</td>
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<tr>
<td>V-7-6</td>
<td>6 STROKES PER MINUTE</td>
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<tr>
<td>V-7-2</td>
<td>2 STROKES PER MINUTE</td>
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</tbody>
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### V-7 MINI-PUMP
- V-7-60. 60 STROKES PER MINUTE
- V-7-30. 30 STROKES PER MINUTE
- V-7-12. 12 STROKES PER MINUTE
- V-7-6. 6 STROKES PER MINUTE
- V-7-2. 2 STROKES PER MINUTE

### FULL STROKE OUTPUT
- 48 GPD MAX @ 100 PSI MAX
- 24 GPD MAX @ 100 PSI MAX
- 6 GPD MAX @ 100 PSI MAX
- 3 GPD MAX @ 100 PSI MAX
- 1 GPD MAX @ 100 PSI MAX

### STROKING RATE
- 1/20 HP TEFC
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### STROKING RATE
- 100 PSI MAX
- 100 PSI MAX
- 100 PSI MAX
- 100 PSI MAX
- 100 PSI MAX

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