

CHEMICAL FEED PUMPS



SWT's dual head dual control adjustable metering pump is built with five detachable components; the motor, two feed rate controls, and two pump heads. The outside head operates on a percentage of the inside head (close to motor). The output of the two heads is equal only on setting #10. Use the Tube Output Tables (see flip side) to select the desired output for the inside head. This will be the primary output. The outside head's output will be a percentage of this amount.

CAUTION: Do not use with chemicals that are dangerous when combined to avoid possible disastrous result.

SPECIFICATIONS

Max Operating Temperature:
125°F (52°C)
Max Suction Lift:
25 ft (7.6 m) vertical lift,
based on water
Motor Type:
1/30 HP, shaded pole, class B
Duty Cycle:
Continuous
Motor Voltage (Amp Draw):
120V 60Hz 1PH (1.7)
220V 60Hz 1PH (0.9)
230V 50Hz 1PH (0.9)
250V 50Hz 1PH (0.9)
Power Cord Type:
SJTOW
Power Cord Plug End:
120V 60Hz NEMA 5/15
220V 60Hz NEMA 6/15
230V 50Hz CEE 7/VII
250V 50Hz CEE 7/VII

DUAL HEAD DUAL CONTROL ADJUSTABLE OUTPUT PUMPS

| Part Number | Tube Size | Output | | Connection Size |
|-------------|-----------|-------------|-------------|-----------------|
| | | GPD @ 60 Hz | LPD @ 50 Hz | |

Dual Head Dual Control — 26 rpm — Low Pressure: 0 to 25 psi (1.7 bar)

| | | | | |
|-------------|----|-----------|--------------|----------|
| TS100MDC1 | #1 | 0.2 to 3 | 0.6 to 9.1 | 1/4 inch |
| TS100MDC2 | #2 | 0.5 to 10 | 1.5 to 30.3 | 1/4 inch |
| TS100MDC3 | #3 | 1.1 to 22 | 3.3 to 66.6 | 1/4 inch |
| TS100MDC4 | #4 | 1.7 to 35 | 5.1 to 106.0 | 1/4 inch |
| TS100MDC5 | #5 | 2.5 to 50 | 7.6 to 151.4 | 1/4 inch |
| TS100MDC1-3 | #1 | 0.2 to 3 | 0.6 to 9.1 | 3/8 inch |
| TS100MDC2-3 | #2 | 0.5 to 10 | 1.5 to 30.3 | 3/8 inch |
| TS100MDC3-3 | #3 | 1.1 to 22 | 3.3 to 66.6 | 3/8 inch |
| TS100MDC4-3 | #4 | 1.7 to 35 | 5.1 to 106.0 | 3/8 inch |
| TS100MDC5-3 | #5 | 2.5 to 50 | 7.6 to 151.4 | 3/8 inch |

Dual Head Dual Control — 26 rpm — High Pressure: 0 to 100 psi (6.9 bar)

| | | | | |
|----------------|----|-----------|-------------|----------|
| TS100MDCHP5 | #1 | 0.2 to 3 | 0.6 to 9.1 | 1/4 inch |
| TS100MDCHP20 | #2 | 0.5 to 10 | 1.5 to 30.3 | 1/4 inch |
| TS100MDCHP5-3 | #1 | 0.2 to 3 | 0.6 to 9.1 | 3/8 inch |
| TS100MDCHP20-3 | #2 | 0.5 to 10 | 1.5 to 30.3 | 3/8 inch |

Dual Head Dual Control — 44 rpm — Low Pressure: 0 to 25 psi (1.7 bar)

| | | | | |
|-------------|----|-----------|---------------|----------|
| TS170MDC1 | #1 | 0.3 to 5 | 0.9 to 15.1 | 1/4 inch |
| TS170MDC2 | #2 | 0.8 to 17 | 2.4 to 51.5 | 1/4 inch |
| TS170MDC3 | #3 | 2.0 to 40 | 6.1 to 121.1 | 1/4 inch |
| TS170MDC4 | #4 | 3.0 to 60 | 9.1 to 181.7 | 1/4 inch |
| TS170MDC5 | #5 | 4.3 to 85 | 13.0 to 257.4 | 1/4 inch |
| TS170MDC1-3 | #1 | 0.3 to 5 | 0.9 to 15.1 | 3/8 inch |
| TS170MDC2-3 | #2 | 0.8 to 17 | 2.4 to 51.5 | 3/8 inch |
| TS170MDC3-3 | #3 | 2.0 to 40 | 6.1 to 121.1 | 3/8 inch |
| TS170MDC4-3 | #4 | 3.0 to 60 | 9.1 to 181.7 | 3/8 inch |
| TS170MDC5-3 | #5 | 4.3 to 85 | 13.0 to 257.4 | 3/8 inch |

Dual Head Dual Control — 44 rpm — High Pressure: 0 to 100 psi (6.9 bar)

| | | | | |
|----------------|----|-----------|-------------|----------|
| TS170MDCHP9 | #1 | 0.3 to 5 | 0.9 to 15.1 | 1/4 inch |
| TS170MDCHP34 | #2 | 0.8 to 17 | 2.4 to 51.5 | 1/4 inch |
| TS170MDCHP9-3 | #1 | 0.3 to 5 | 0.9 to 15.1 | 3/8 inch |
| TS170MDCHP34-3 | #2 | 0.8 to 17 | 2.4 to 51.5 | 3/8 inch |

Refer to Tube Output Tables on the flip side of this page to match the required gallon-per-day metering pump output with the appropriate model. System output is determined by the motor RPM, pump tube, and feed rate control setting.

CHEMICAL FEED PUMPS



DUAL HEAD DUAL CONTROL ADJUSTABLE OUTPUT PUMPS

Tube Output — 26 rpm Models — Gallons per Day @ 60 Hz

| Model | Tube Size | Approximate Output In Gallons Per Day (24 Hours) @ 60 Hz | | | | | | | | | | |
|-------|-----------|--|-----|------|------|------|------|------|------|------|------|------|
| | | L | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| TS100 | #1 | 0.2 | 0.3 | 0.6 | 0.9 | 1.2 | 1.5 | 1.8 | 2.1 | 2.4 | 2.7 | 3.0 |
| | #2 | 0.5 | 1.0 | 2.0 | 3.0 | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 | 9.0 | 10.0 |
| | #3 | 1.1 | 2.2 | 4.4 | 6.6 | 8.8 | 11.0 | 13.2 | 15.4 | 17.6 | 19.8 | 22.0 |
| | #4 | 1.7 | 3.5 | 7.0 | 10.5 | 14.0 | 17.5 | 21.0 | 24.5 | 28.0 | 31.5 | 35.0 |
| | #5 | 2.5 | 5.0 | 10.0 | 15.0 | 20.0 | 25.0 | 30.0 | 35.0 | 40.0 | 45.0 | 50.0 |

Tube Output — 26 rpm Models — Liters per Day @ 50 Hz

| Model | Tube Size | Approximate Output In Liters Per Day (24 Hours) @ 50 Hz | | | | | | | | | | |
|-------|-----------|---|------|------|------|------|------|------|-------|-------|-------|-------|
| | | L | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| TS100 | #1 | 0.6 | 0.9 | 1.8 | 2.7 | 3.6 | 4.5 | 5.5 | 6.4 | 7.3 | 8.2 | 9.1 |
| | #2 | 1.5 | 3.0 | 6.1 | 9.1 | 12.1 | 15.1 | 18.2 | 21.2 | 24.2 | 27.3 | 30.3 |
| | #3 | 3.3 | 6.6 | 13.3 | 20.0 | 26.6 | 33.3 | 40.0 | 46.6 | 53.3 | 60.0 | 66.6 |
| | #4 | 5.1 | 10.6 | 21.2 | 31.8 | 42.4 | 53.0 | 63.6 | 74.2 | 84.8 | 95.4 | 106.0 |
| | #5 | 7.6 | 15.1 | 30.3 | 45.4 | 60.6 | 75.7 | 90.8 | 106.0 | 121.1 | 136.3 | 151.4 |

Tube Output — 44 rpm Models — Gallons per Day @ 60 Hz

| Model | Tube Size | Approximate Output In Gallons Per Day (24 Hours) @ 60 Hz | | | | | | | | | | |
|-------|-----------|--|-----|------|------|------|------|------|------|------|------|------|
| | | L | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| TS170 | #1 | 0.3 | 0.5 | 1.0 | 1.5 | 2.0 | 2.5 | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 |
| | #2 | 0.8 | 1.7 | 3.4 | 5.1 | 6.8 | 8.5 | 10.2 | 11.9 | 13.6 | 15.3 | 17.0 |
| | #3 | 2.0 | 4.0 | 8.0 | 12.0 | 16.0 | 20.0 | 24.0 | 28.0 | 32.0 | 36.0 | 40.0 |
| | #4 | 3.0 | 6.0 | 12.0 | 18.0 | 24.0 | 30.0 | 36.0 | 42.0 | 48.0 | 54.0 | 60.0 |
| | #5 | 4.3 | 8.5 | 17.0 | 25.5 | 34.0 | 42.5 | 51.0 | 59.5 | 68.0 | 76.5 | 85.0 |

Tube Output — 44 rpm Models — Liters per Day @ 50 Hz

| Model | Tube Size | Approximate Output In Liters Per Day (24 Hours) @ 50 Hz | | | | | | | | | | |
|-------|-----------|---|------|------|------|-------|-------|-------|-------|-------|-------|-------|
| | | L | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| TS170 | #1 | 0.9 | 1.5 | 3.0 | 4.5 | 6.1 | 7.6 | 9.1 | 10.6 | 12.1 | 13.6 | 15.1 |
| | #2 | 2.4 | 5.1 | 10.3 | 15.4 | 20.6 | 25.7 | 30.9 | 36.0 | 41.2 | 46.3 | 51.5 |
| | #3 | 6.1 | 12.1 | 24.2 | 36.3 | 48.5 | 60.6 | 76.7 | 84.8 | 96.9 | 109.0 | 121.1 |
| | #4 | 9.1 | 18.2 | 36.3 | 54.5 | 76.7 | 90.8 | 109.0 | 127.2 | 145.3 | 163.5 | 181.7 |
| | #5 | 13.0 | 25.7 | 51.5 | 77.2 | 103.0 | 128.7 | 154.4 | 180.0 | 205.9 | 231.6 | 257.4 |

NOTE: The above information is solely intended for use as a guide. The output data is an approximation based on pumping water under a controlled testing environment. Many variables can affect the output of the pump. The manufacturer recommends that all metering pumps undergo field calibration by means of analytical testing to confirm their outputs.