

# CHEMICAL FEED PUMPS



## SINGLE HEAD ADJUSTABLE OUTPUT PUMPS



SWT's single head adjustable metering pump is built with three detachable components; the motor, feed rate control, and pump head. The output is determined by three factors; the rpm of the motor gears, the percentage setting on the feed rate control, and the size of the pump tube. The motor shaft rotates at a fixed rpm, which drives the feed rate control to intermittently engage the roller assembly within the pump head according to the setting on the external dial ring. The dial ring is labeled L to 10 and has a 20:1 turndown. See Tube Output Tables on the flip side of this page.

### 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

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

### Single Head Adjustable — 26 rpm — Low Pressure: 0 to 25 psi (1.7 bar)

TS45M1	#1	0.2 to 3	0.6 to 9.1	1/4 inch
TS45M2	#2	0.5 to 10	1.5 to 30.3	1/4 inch
TS45M3	#3	1.1 to 22	3.3 to 66.6	1/4 inch
TS45M4	#4	1.7 to 35	5.1 to 106.0	1/4 inch
TS45M5	#5	2.5 to 50	7.6 to 151.4	1/4 inch
TS45M1-3	#1	0.2 to 3	0.6 to 9.1	3/8 inch
TS45M2-3	#2	0.5 to 10	1.5 to 30.3	3/8 inch
TS45M3-3	#3	1.1 to 22	3.3 to 66.6	3/8 inch
TS45M4-3	#4	1.7 to 35	5.1 to 106.0	3/8 inch
TS45M5-3	#5	2.5 to 50	7.6 to 151.4	3/8 inch

### Single Head Adjustable — 26 rpm — High Pressure: 0 to 100 psi (6.9 bar)

TS45MHP2	#1	0.2 to 3	0.6 to 9.1	1/4 inch
TS45MHP10	#2	0.5 to 10	1.5 to 30.3	1/4 inch
TS45MHP22	#7	1.1 to 22	3.3 to 66.6	1/4 inch
TS45MHP2-3	#1	0.2 to 3	0.6 to 9.1	3/8 inch
TS45MHP10-3	#2	0.5 to 10	1.5 to 30.3	3/8 inch
TS45MHP22-3	#7	1.1 to 22	3.3 to 66.6	3/8 inch

### Single Head Adjustable — 44 rpm — Low Pressure: 0 to 25 psi (1.7 bar)

TS85M1	#1	0.3 to 5	0.9 to 15.1	1/4 inch
TS85M2	#2	0.8 to 17	2.4 to 51.5	1/4 inch
TS85M3	#3	2.0 to 40	6.1 to 121.1	1/4 inch
TS85M4	#4	3.0 to 60	9.1 to 181.7	1/4 inch
TS85M5	#5	4.3 to 85	13.0 to 257.4	1/4 inch
TS85M1-3	#1	0.3 to 5	0.9 to 15.1	3/8 inch
TS85M2-3	#2	0.8 to 17	2.4 to 51.5	3/8 inch
TS85M3-3	#3	2.0 to 40	6.1 to 121.1	3/8 inch
TS85M4-3	#4	3.0 to 60	9.1 to 181.7	3/8 inch
TS85M5-3	#5	4.3 to 85	13.0 to 257.4	3/8 inch

### Single Head Adjustable — 44 rpm — High Pressure: 0 to 100 psi (6.9 bar)

TS85MHP5	#1	0.3 to 5	0.9 to 15.1	1/4 inch
TS85MHP17	#2	0.8 to 17	2.4 to 51.5	1/4 inch
TS85MHP40	#7	2.0 to 40	6.1 to 121.1	1/4 inch
TS85MHP5-3	#1	0.3 to 5	0.9 to 15.1	3/8 inch
TS85MHP17-3	#2	0.8 to 17	2.4 to 51.5	3/8 inch
TS85MHP40-3	#7	2.0 to 40	6.1 to 121.1	3/8 inch

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### 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
TS45	#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 #7	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
TS45	#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 #7	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
TS85	#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 #7	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
TS85	#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 #7	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.