



Chemical Metering Pumps
www.sidewinderpumps.com

TABLE 1.1: APPROXIMATE QUARTS PER DAY AT THE VARIOUS RUN TIMES AND CYCLES/MINUTE USING A SIMPLEX PUMP (MULTIPLY X 2 FOR DUPLEX OPERATION)

1/4" PLUNGER - SIMPLEX PUMP (MULTIPLY X 2 FOR DUPLEX OPERATION)	RUN TIME (SEC)	"CYC" (NUMBER OF CYCLES / MINUTE) NOTE: SIDEWINDER RECOMMENDS THE MAXIMUM FLOW RATE & RUN TIME BE NO MORE THAN 40% OF MAXIMUM CAPACITY																													
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
		0.5	0.6	1.2	1.8	2.4	3.1	3.7	4.3	4.9	5.5	6.1	6.7	7.3	7.9	8.6	9.2	9.8	10.4	11.0	11.6	12.2	12.8	13.4	14.1	14.7	15.3	15.9	16.5	17.1	17.7
1.0	1.2	2.4	3.7	4.9	6.1	7.3	8.6	9.8	11.0	12.2	13.4	14.7	15.9	17.1	18.3	19.5	20.8	22.0	23.2	24.4	25.7	26.9	28.1	29.3	30.5	31.8	33.0	34.2	35.4	36.7	
1.5	1.8	3.7	5.5	7.3	9.2	11.0	12.8	14.7	16.5	18.3	20.2	22.0	23.8	25.7	27.5	29.3	31.2	33.0	34.8	36.7	38.5	40.3	42.2	44.0	45.8	47.7	49.5	51.3	53.1	55.0	
2.0	2.4	4.9	7.3	9.8	12.2	14.7	17.1	19.5	22.0	24.4	26.9	29.3	31.8	34.2	36.7	39.1	41.5	44.0	46.4	48.9	51.3	53.8	56.2	58.6	61.1	63.5	66.0	68.4	70.9	73.3	
2.5	3.1	6.1	9.2	12.2	15.3	18.3	21.4	24.4	27.5	30.5	33.6	36.7	39.7	42.8	45.8	48.9	51.9	55.0	58.0	61.1	64.1	67.2	70.3	73.3	N/A	N/A	N/A	N/A	N/A	N/A	
3.0	3.7	7.3	11.0	14.7	18.3	22.0	25.7	29.3	33.0	36.7	40.3	44.0	47.7	51.3	55.0	58.6	62.3	66.0	69.6	73.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
3.5	4.3	8.6	12.8	17.1	21.4	25.7	29.9	34.2	38.5	42.8	47.0	51.3	55.6	59.9	64.1	68.4	72.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
4.0	4.9	9.8	14.7	19.5	24.4	29.3	34.2	39.1	44.0	48.9	53.8	58.6	63.5	68.4	73.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
4.5	5.5	11.0	16.5	22.0	27.5	33.0	38.5	44.0	49.5	55.0	60.5	66.0	71.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
5.0	6.1	12.2	18.3	24.4	30.5	36.7	42.8	48.9	55.0	61.1	67.2	73.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
5.5	6.7	13.4	20.2	26.9	33.6	40.3	47.0	53.8	60.5	67.2	73.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
6.0	7.3	14.7	22.0	29.3	36.7	44.0	51.3	58.6	66.0	73.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
6.5	7.9	15.9	23.8	31.8	39.7	47.7	55.6	63.5	71.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
7.0	8.6	17.1	25.7	34.2	42.8	51.3	59.9	68.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
7.5	9.2	18.3	27.5	36.7	45.8	55.0	64.1	73.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
8.0	9.8	19.5	29.3	39.1	48.9	58.6	68.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
8.5	10.4	20.8	31.2	41.5	51.9	62.3	72.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
9.0	11.0	22.0	33.0	44.0	55.0	66.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
9.5	11.6	23.2	34.8	46.4	58.0	69.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10.0	12.2	24.4	36.7	48.9	61.1	73.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	RUN TIME (SEC)	CYC (NUMBER OF CYCLES / MINUTE)																													
		31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
	0.5	18.9	19.5	20.2	20.8	21.4	22.0	22.6	23.2	23.8	24.4	25.0	25.7	26.3	26.9	27.5	28.1	28.7	29.3	29.9	30.5	31.2	31.8	32.4	33.0	33.6	34.2	34.8	35.4	36.0	36.7
	1.0	37.9	39.1	40.3	41.5	42.8	44.0	45.2	46.4	47.7	48.9	50.1	51.3	52.5	53.8	55.0	56.2	57.4	58.6	59.9	61.1	62.3	63.5	64.8	66.0	67.2	68.4	69.6	70.9	72.1	73.3
	1.5	56.8	58.6	60.5	62.3	64.1	66.0	67.8	69.6	71.5	73.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2.0	CONTINUED FROM ABOVE "CYC" VALUES 31 AND GREATER ARE NOT AVAILABLE WITH RUN TIMES 2.0 SECONDS AND GREATER																													

MAXIMUM PRESSURE - LP = 2000 PSI, HP = 5000PSI