



Chemical Metering Pumps  
www.sidewinderpumps.com

**TABLE 1.2: APPROXIMATE QUARTS PER DAY AT THE VARIOUS RUN TIMES AND CYCLES/MINUTE USING A 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	1.4	2.7	4.1	5.5	6.9	8.2	9.6	11.0	12.3	13.7	15.1	16.5	17.8	19.2	20.6	21.9	23.3	24.7	26.1	27.4	28.8	30.2	31.5	32.9	34.3	35.7	37.0	38.4	39.8	41.1	
1.0	2.7	5.5	8.2	11.0	13.7	16.5	19.2	21.9	24.7	27.4	30.2	32.9	35.7	38.4	41.1	43.9	46.6	49.4	52.1	54.9	57.6	60.3	63.1	65.8	68.6	71.3	74.1	76.8	79.5	82.3	
1.5	4.1	8.2	12.3	16.5	20.6	24.7	28.8	32.9	37.0	41.1	45.3	49.4	53.5	57.6	61.7	65.8	69.9	74.1	78.2	82.3	86.4	90.5	94.6	98.7	102.9	107.0	111.1	115.2	119.3	123.4	
2.0	5.5	11.0	16.5	21.9	27.4	32.9	38.4	43.9	49.4	54.9	60.3	65.8	71.3	76.8	82.3	87.8	93.3	98.7	104.2	109.7	115.2	120.7	126.2	131.7	137.1	142.6	148.1	153.6	159.1	164.6	
2.5	6.9	13.7	20.6	27.4	34.3	41.1	48.0	54.9	61.7	68.6	75.4	82.3	89.1	96.0	102.9	109.7	116.6	123.4	130.3	137.1	144.0	150.9	157.7	164.6	N/A	N/A	N/A	N/A	N/A	N/A	
3.0	8.2	16.5	24.7	32.9	41.1	49.4	57.6	65.8	74.1	82.3	90.5	98.7	107.0	115.2	123.4	131.7	139.9	148.1	156.3	164.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3.5	9.6	19.2	28.8	38.4	48.0	57.6	67.2	76.8	86.4	96.0	105.6	115.2	124.8	134.4	144.0	153.6	163.2	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
4.0	11.0	21.9	32.9	43.9	54.9	65.8	76.8	87.8	98.7	109.7	120.7	131.7	142.6	153.6	164.6	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
4.5	12.3	24.7	37.0	49.4	61.7	74.1	86.4	98.7	111.1	123.4	135.8	148.1	160.5	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
5.0	13.7	27.4	41.1	54.9	68.6	82.3	96.0	109.7	123.4	137.1	150.9	164.6	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
5.5	15.1	30.2	45.3	60.3	75.4	90.5	105.6	120.7	135.8	150.9	165.9	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	N/A
6.0	16.5	32.9	49.4	65.8	82.3	98.7	115.2	131.7	148.1	164.6	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
6.5	17.8	35.7	53.5	71.3	89.1	107.0	124.8	142.6	160.5	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	N/A
7.0	19.2	38.4	57.6	76.8	96.0	115.2	134.4	153.6	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
7.5	20.6	41.1	61.7	82.3	102.9	123.4	144.0	164.6	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
8.0	21.9	43.9	65.8	87.8	109.7	131.7	153.6	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
8.5	23.3	46.6	69.9	93.3	116.6	139.9	163.2	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
9.0	24.7	49.4	74.1	98.7	123.4	148.1	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	N/A
9.5	26.1	52.1	78.2	104.2	130.3	156.3	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	N/A
10.0	27.4	54.9	82.3	109.7	137.1	164.6	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	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	42.5	43.9	45.3	46.6	48.0	49.4	50.7	52.1	53.5	54.9	56.2	57.6	59.0	60.3	61.7	63.1	64.5	65.8	67.2	68.6	69.9	71.3	72.7	74.1	75.4	76.8	78.2	79.5	80.9	82.3	
1.0	85.0	87.8	90.5	93.3	96.0	98.7	101.5	104.2	107.0	109.7	112.5	115.2	117.9	120.7	123.4	126.2	128.9	131.7	134.4	137.1	139.9	142.6	145.4	148.1	150.9	153.6	156.3	159.1	161.8	164.6	
1.5	127.5	131.7	135.8	139.9	144.0	148.1	152.2	156.3	160.5	164.6	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
2.0	CONTINUED FROM ABOVE .... "CYC" VALUES 31 AND GREATER ARE NOT AVAILABLE WITH RUN TIMES 2.0 SECONDS AND GREATER																														

**3/8" PLUNGER - SIMPLEX PUMP (MULTIPLY X 2 FOR DUPLEX OPERATION)**

SHADED AREAS ARE OUTSIDE SIDEWINDER RECOMMENDED OPERATIONAL RANGE (CALL FACTORY)

**MAXIMUM PRESSURE - LP = 850 PSI, HP = 2500PSI**