

MANUAL BALANCE **SPEEDSET™ & QUICKSET® FLOW CHART**

QUICKSET® FLOW RATE (GPM) VERSUS VALVE SIGNAL (INWC)¹

FLOWRATE (GPM)	1/2" Cv: 0.39 3/4" Cv: 0.39	1/2" Cv: 1.1 3/4" Cv: 1.1	1/2" Cv: 2.5 3/4" Cv: 2.5	1/2" Cv: 4.2 3/4" Cv: 4.2	3/4"Cv: 0.9	3/4" Cv: 1.9	1" Cv:1.8	3/4" Cv: 3.9 1" Cv: 3.8	3/4" Cv: 7.0 1" Cv: 7.6
0.2	8.9								
0.3	20.0								
0.4	35.6	8.4			7.8				
0.5	55.6	13.1			12.3				
0.6	80.1	18.9	5.0		17.6				
0.7	109.0	25.8	6.8		24.0	6.2	6.0		
0.8	142.4	33.7	8.9		31.4	8.1	7.8		
0.9	180.2	42.6	11.3		39.7	10.3	9.9		
1	222.5	52.6	13.9		49.0	12.7	12.2		
1.1	269.2	63.6	16.9		59.3	15.4	14.8		
1.2		75.7	20.1	4.9	70.6	18.3	17.6		
1.3		88.9	23.6	5.7	82.8	21.4	20.7	5.4	
1.4		103.1	27.3	6.7	96.1	24.9	24.0	6.3	
1.5		118.3	31.4	7.6	110.3	28.6	27.5	7.2	
1.6		134.6	35.7	8.7	125.5	32.5	31.3	8.2	
1.7		152.0	40.3	9.8	141.7	36.7	35.4	9.2	
1.8		170.4	45.2	11.0	158.8	41.1	39.7	10.3	
1.9		189.9	50.3	12.3	177.0	45.8	44.2	11.5	
2.00		210.4	55.8	13.6	196.1	50.8	49.0	12.8	
2.25		266.2	70.6	17.2	248.2	64.2	62.0	16.2	
2.50		328.7	87.1	21.2	306.4	79.3	76.5	20.0	
2.75			105.4	25.7		96.0	92.6	24.2	5.7
3.00			125.5	30.6		114.2	110.1	28.7	6.8
3.25			147.3	35.9		134.0	129.3	33.7	8.0
3.50			170.8	41.6		155.4	149.9	39.1	9.3
3.75			196.1	47.8		178.4	172.1	44.9	10.6
4.0			223.1	54.3		203.0	195.8	51.1	12.1
4.5			282.3	68.8		257.0	247.8	64.7	15.3
5.0				84.9		317.2	306.0	79.8	18.9
5.5				102.7				96.6	22.9
6.0				122.3				115.0	27.3
6.5				143.5				134.9	32.0
7.0				166.4				156.5	37.1
7.5				191.0				179.7	42.6
8.0				217.3				204.4	48.5
8.5				245.4				230.8	54.7
9.0				275.1				258.7	61.3
9.5				306.5				288.3	68.3
10.0								319.4	75.7
10.5									83.5
11.0									91.6
11.5									100.1
12.0									109.0
12.5									118.3
13.0									127.9
14.0									148.4
15.0									170.3
16.0									193.8
17.0									218.8
18.0									245.3
19.0									273.3
20.0									302.8

NOTES

¹ Signal valves in table are used for flow measurement and flow setting. Cv is the GPM of water at 1 PSID drop through the valve at the specific setting. Cv's are used to calculate the permanent pressure drop across valve for pump sizing. $PSID = (Flow/Cv)^2$.

MANUAL BALANCE **SPEEDSET™ & QUICKSET® FLOW CHART**

QUICKSET® FLOW RATE (GPM) VERSUS VALVE SIGNAL (INWC)

FLOWRATE (GPM)	1" Cv: 12.2	1-1/4" Cv: 10.0	1-1/4" Cv: 21.8	1-1/2" Cv: 22.1	1-1/2" Cv: 54.7	2" Cv:65.2 2" Cv: 105.2
3.50		5.4				
3.75		6.2				
4.0	5.4	7.0				
4.5	6.8	8.9				
5.0	8.4	11.0				
5.5	10.1	13.3				
6.0	12.0	15.8				
6.5	14.1	18.6				
7.0	16.4	21.5				
7.5	18.8	24.7	5.4	5.2		
8.0	21.4	28.1	6.2	5.9		
8.5	24.2	31.7	7.0	6.6		
9.0	27.1	35.6	7.8	7.4		
9.5	30.2	39.6	8.7	8.3		
10.0	33.5	43.9	9.6	9.2		
10.5	36.9	48.4	10.6	10.1		
11.0	40.5	53.1	11.6	11.1		
11.5	44.3	58.1	12.7	12.2		
12.0	48.2	63.2	13.9	13.2		
12.5	52.3	68.6	15.0	14.4		
13.0	56.5	74.2	16.3	15.5		
14.0	65.6	86.1	18.9	18.0	5.1	
15.0	75.3	98.8	21.7	20.7	5.8	
16.0	85.7	112.4	24.6	23.5	6.6	
17.0	96.7	126.9	27.8	26.6	7.5	
18.0	108.4	142.3	31.2	29.8	8.4	
19.0	120.8	158.5	34.8	33.2	9.3	
20.0	133.8	175.7	38.5	36.8	10.3	
21.0	147.6	193.7	42.5	40.5	11.4	
22.0	161.9	212.5	46.6	44.5	12.5	5.2
23.0	177.0	232.3	50.9	48.6	13.6	5.6
24.0	192.7	252.9	55.5	53.0	14.9	6.1
25.0	209.1	274.5	60.2	57.5	16.1	6.7
26.0	226.2	296.9	65.1	62.2	17.4	7.2
27.0	243.9	320.1	70.2	67.0	18.8	7.8
28.0	262.3		75.5	72.1	20.2	8.3
29.0	281.4		81.0	77.3	21.7	8.9
30.0	301.1		86.6	82.8	23.2	9.6
32.0			98.6	94.2	26.4	10.9
34.0			111.3	106.3	29.8	12.3
36.0			124.8	119.2	33.4	13.8
38.0			139.0	132.8	37.3	15.4
40.0			154.0	147.1	41.3	17.0
42.0			169.8	162.2	45.5	18.8
44.0			186.4	178.0	49.9	20.6
46.0			203.7	194.6	54.6	22.5
48.0			221.8	211.8	59.4	24.5
50.0			240.7	229.9	64.5	26.6
52.0			260.3	248.6	69.8	28.8
54.0			280.7	268.1	75.2	31.0
56.0			301.9	288.3	80.9	33.4
58.0			323.8	309.3	86.8	35.8
60.0					92.9	38.3
62.0					99.2	40.9
64.0					105.7	43.6
66.0					112.4	46.4
68.0					119.3	49.2
70.0					126.4	52.1

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FLOWRATE (GPM)	1" Cv: 12.2	1-1/4" Cv: 10.0	1-1/4" Cv: 21.8	1-1/2" Cv: 22.1	1-1/2" Cv: 54.7	2" Cv: 65.2 2" Cv: 105.2
72.0					133.7	55.2
74.0					141.3	58.3
76.0					149.0	61.5
78.0					157.0	64.7
80.0					165.1	68.1
85					186.4	76.9
90					209.0	86.2
95					232.8	96.0
100					258.0	106.4
105					284.4	117.3
110					312.1	128.8
115						140.7
120						153.2
125						166.3
130						179.8
135						194.0
140						208.6
145						223.7
150						239.4
155						255.7
160						272.4
165						289.7
170						307.6

SPEEDSET™ FLOW RATE (GPM) VERSUS VALVE SIGNAL (INWC)

FLOWRATE (GPM)	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
1	4.3					
1.1	5.2					
1.2	6.2					
1.3	7.3					
1.4	8.4					
1.5	9.7					
1.6	11.0					
1.7	12.4					
1.8	13.9					
1.9	15.5					
2.00	17.2					
2.25	21.8	5.0				
2.50	26.9	6.1				
2.75	32.5	7.4				
3.00	38.7	8.8				
3.25	45.4	10.3				
3.50	52.6	12.0				
3.75	60.4	13.8				
4.0	68.7	15.7	4.6			
4.5	87.0	19.8	5.8			
5.0	107.4	24.5	7.2			
5.5	130.0	29.6	8.7			
6.0	154.7	35.3	10.3			
6.5	181.5	41.4	12.1			
7.0	210.5	48.0	14.1			
7.5	241.7	55.1	16.1			
8.0	275.0	62.7	18.4	4.8		
8.5	310.4	70.8	20.7	5.4		
9.0	348.0	79.3	23.2	6.0		
9.5		88.4	25.9	6.7		
10.0		97.9	28.7	7.4		
10.5		108.0	31.6	8.2		
11.0		118.5	34.7	9.0		
11.5		129.5	37.9	9.8		

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FLOWRATE (GPM)	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
12.0		141.0	41.3	10.7		
12.5		153.0	44.8	11.6	4.8	
13.0		165.5	48.5	12.6	5.1	
14.0		192.0	56.2	14.6	6.0	
15.0		220.4	64.5	16.7	6.9	
16.0		250.7	73.4	19.0	7.8	
17.0		283.1	82.9	21.5	8.8	
18.0		317.3	92.9	24.1	9.9	
19.0			103.6	26.8	11.0	
20.0			114.7	29.7	12.2	
21.0			126.5	32.8	13.4	4.9
22.0			138.8	36.0	14.7	5.4
23.0			151.8	39.3	16.1	5.9
24.0			165.2	42.8	17.5	6.4
25.0			179.3	46.5	19.0	6.9
26.0			193.9	50.3	20.6	7.5
27.0			209.1	54.2	22.2	8.1
28.0			224.9	58.3	23.9	8.7
29.0			241.3	62.5	25.6	9.3
30.0			258.2	66.9	27.4	10.0
32.0			293.8	76.1	31.2	11.4
34.0			331.6	85.9	35.2	12.8
36.0				96.3	39.5	14.4
38.0				107.3	44.0	16.0
40.0				118.9	48.7	17.8
42.0				131.1	53.7	19.6
44.0				143.9	59.0	21.5
46.0				157.3	64.4	23.5
48.0				171.3	70.2	25.6
50.0				185.9	76.1	27.8
52.0				201.0	82.3	30.1
54.0				216.8	88.8	32.4
56.0				233.1	95.5	34.9
58.0				250.1	102.4	37.4
60.0				267.6	109.6	40.0
62.0				285.8	117.1	42.7
64.0				304.5	124.7	45.5
66.0					132.7	48.4
68.0					140.8	51.4
70.0					149.2	54.5
72.0					157.9	57.6
74.0					166.8	60.9
76.0					175.9	64.2
78.0					185.3	67.6
80.0					194.9	71.1
85					220.0	80.3
90					246.7	90.0
95					274.8	100.3
100					304.5	111.1
105						122.5
110						134.5
115						147.0
120						160.1
125						173.7
130						187.8
135						202.6
140						217.8
145						233.7
150						250.1
155						267.0
160						284.5
165						302.6

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