



2" ICV Valve Testing Results

APPLICABLE TO THE ANY HYDRANTS THAT
INCORPORATE THE 2" ICV VALVE, INCLUDING
BUT NOT LIMITED TO:

9400, 9400WC, 9700, 9700-I, 9800, 9800-I,

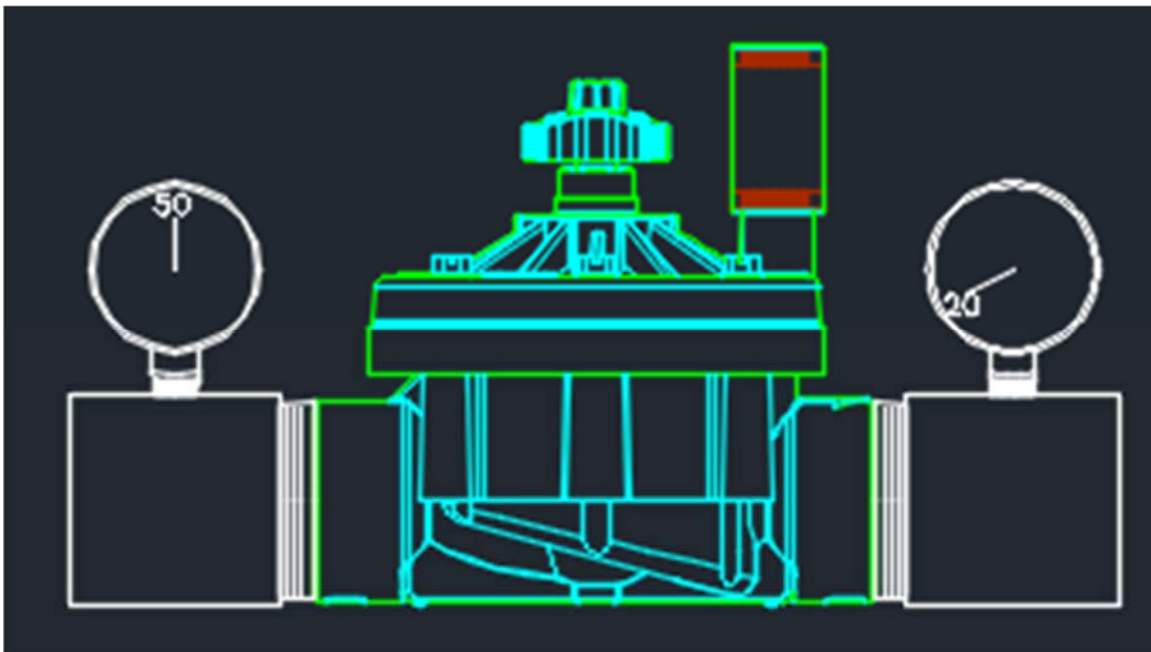
Disclaimer: While this document is complete, comprehensive, and accurate to the best of Kuperle's knowledge, this document is subject to change and is for general information purposes only.

General Overview:

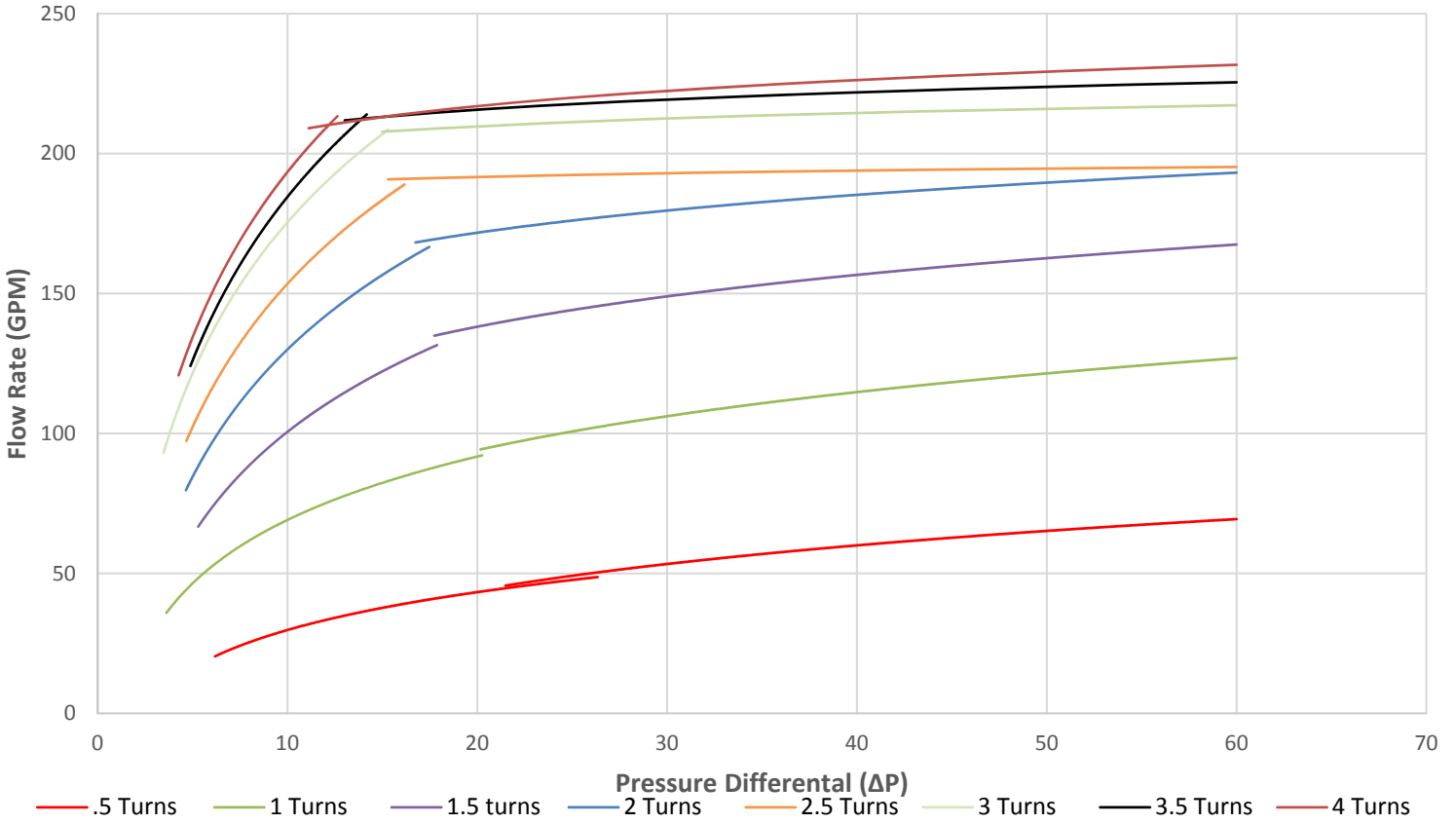
The results listed and illustrated below are a reflection of the valve operating independently of a complete installation. Head loss as a result of pipe size, pipe material, elbows, etc. was not included in these calculations simply because of the large number of different applications.

The differential pressure used in this test was the pressure across the valve itself. For most installations, this will mean that the water pressure on the front of the valve (while in the on position) compared to the water pressure on the discharge side of the valve (also in the on position) will provide a differential pressure. If that cannot be determined sometimes, knowing the static pressure (when the valve is closed) and comparing it to the dynamic pressure (pressure when the hydrant is running) can give an approximate differential pressure.

Below shows a typical set up for finding differential pressure across the valve. Setting up a pressure gauge before and after will allow the user to simply subtract the two numbers to find this value. For the figure below the differential pressure would be 30. Taking the upstream of 50 and subtracting the downstream of 20 gives this value.



2" ICV Valve

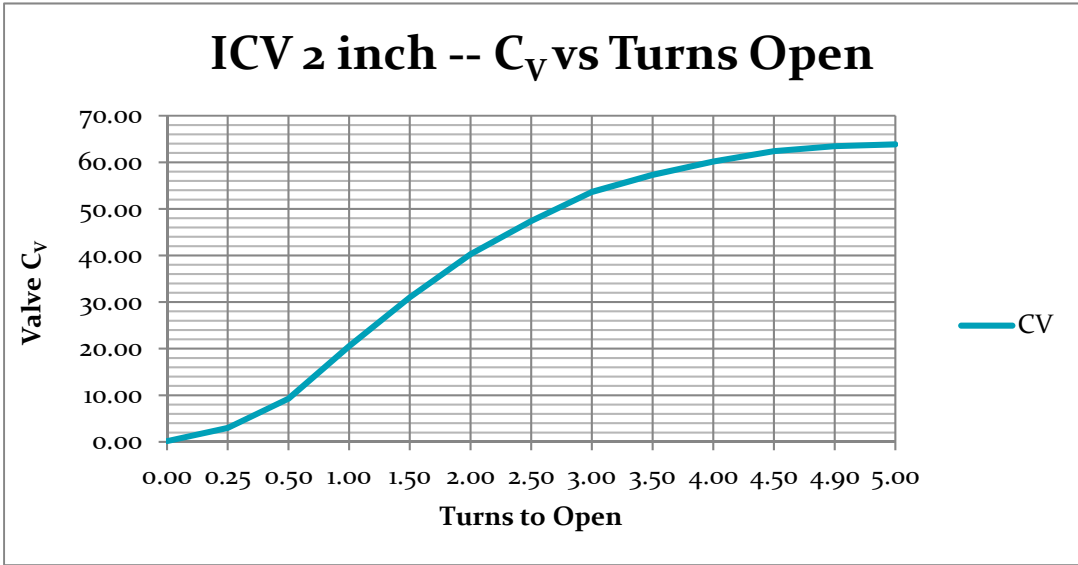


1 Turns	
ΔP	(GPM)
5	45
10	70
15	84
20	96
25	99
30	105
35	110
40	114
45	118
50	121
55	124
60	127

2 Turns	
ΔP	(GPM)
5	83
10	126
15	152
20	171
25	176
30	179
35	182
40	185
45	187
50	189
55	191
60	193

3 Turns	
ΔP	(GPM)
5	120
10	169
15	208
20	210
25	211
30	212
35	213
40	214
45	215
50	215
55	216
60	217

4 Turns	
ΔP	(GPM)
5	131
10	194
15	215
20	218
25	220
30	222
35	224
40	225
45	227
50	228
55	229
60	230



CV	Turns Open
0.15	0.00
3.00	0.25
9.26	0.50
20.55	1.00
31.01	1.50
40.29	2.00
47.40	2.50
53.64	3.00
57.30	3.50
60.15	4.00
62.37	4.50
63.44	4.90
63.85	5.00