

Flow Coefficients (Cv)

Cv = Flow of water in U.S. gallons per minute through the valve with a one psi pressure drop.

Class 150 Flanged and Butt Weld

Degrees Open From Closed	10°	20°	30°	40°	50°	60°	70°	80°	90°
1/2"	–	–	0.1	0.3	0.9	1.4	2.2	3.5	8.4
3/4"	–	–	0.2	1.2	2.2	3.7	5.4	8.0	17.0
1"	–	–	0.2	1.1	2.5	4.6	7.6	12.8	30.0
1 1/2"	–	–	1.0	3.0	5.5	11.0	17.5	33.5	73.0
2"	–	0.5	3.0	6.5	11.5	21.0	39.0	81.5	160.5
3"	–	0.5	3.7	12.4	22.9	42.4	81.5	181.0	355.0
4"	–	1.1	7.8	26.1	48.4	89.7	172.5	383.4	751.6
6"	–	–	–	–	–	–	–	–	1500

Class 300 Flanged and Butt Weld

Degrees Open From Closed	10°	20°	30°	40°	50°	60°	70°	80°	90°
1/2"	–	–	0.1	0.3	0.7	1.2	2.1	3.8	8.4
3/4"	–	–	0.2	0.8	1.6	2.8	5.0	9.5	18.2
1"	–	–	0.2	1.0	2.4	4.6	8.0	15.6	31.6
1 1/2"	–	1.0	2.5	5.5	10.0	17.5	29.0	51.0	80.0
2"	–	1.0	3.0	6.5	13.5	22.0	39.0	72.0	163.0
3"	–	2.5	8.4	17.9	34.5	57.5	99.2	180.3	360.5
4"	–	5.3	17.8	37.9	73.0	121.7	209.9	381.6	763.3
6"	–	–	–	–	–	–	–	–	1500

Class 600 Flanged and Butt Weld

Degrees Open From Closed	10°	20°	30°	40°	50°	60°	70°	80°	90°
1/2"	–	–	0.1	0.3	0.8	1.3	2.2	3.5	8.5
3/4"	–	–	0.2	0.9	1.9	3.4	5.6	8.2	17.0
1"	–	–	0.2	0.8	1.9	3.8	7.0	14.2	28.4
1 1/2"	–	–	0.5	3.5	9.5	17.0	31.0	55.0	81.0
2"	–	0.9	3.0	6.0	11.5	21.0	39.0	87.0	163.0
3"	–	1.4	4.7	11.2	28.1	51.1	94.6	197.1	365.0
4"	–	2.9	9.9	23.6	59.1	107.4	198.9	414.5	767.5

Screwed and Socket Weld – All Classes

Degrees Open From Closed	10°	20°	30°	40°	50°	60°	70°	80°	90°
1/2"	–	–	0.1	0.2	0.7	1.2	2.1	3.6	8.4
3/4"	–	–	0.2	0.7	1.6	2.9	5.0	8.5	17.0
1"	–	–	0.5	0.7	2.0	3.8	6.8	12.5	30.8
1 1/2"	–	1.0	2.5	5.0	9.5	15.5	24.5	45.0	78.4
2"	–	1.0	3.0	6.0	11.5	21.0	38.5	76.5	158.5
3"	–	2.9	8.4	16.8	32.3	53.9	96.3	181.7	349.5

Note: Consult factory for recommendations on valves intended for throttling or modulating services.