Cv to Kv Conversion Table

Basis: Cv is US gallons per minute of water at 60 °F with 1 psi drop; Kv is m^3/h of water at 5 to 40 °C with 1 bar drop. Kv = 0.865 Cv, Cv = 1.156 Kv (IEC 60534 1).

instrumentationblog.in/downloads/engineering-reference-tables/cv-to-kv-conversion-table/

Conversion in both directions

Cv	Kv	Kv	Cv
0.01	0.009	0.01	0.012
0.02	0.017	0.02	0.023
0.05	0.043	0.05	0.058
0.10	0.087	0.10	0.116
0.20	0.173	0.20	0.231
0.50	0.432	0.50	0.578
1	0.86	1	1.16
2	1.73	2	2.31
3	2.59	3	3.47
5	4.33	5	5.78
7.5	6.49	7.5	8.67
10	8.65	10	11.56
15	12.97	15	17.34
20	17.30	20	23.12
30	25.95	30	34.68
40	34.60	40	46.24
50	43.25	50	57.80
75	64.88	75	86.70
100	86.50	100	115.60
150	129.75	150	173.40
200	173.00	200	231.20
300	259.50	300	346.80
400	346.00	400	462.40
500	432.50	500	578.00
750	648.75	750	867.00
1000	865.00	1000	1156.00
1500	1297.50	1500	1734.00
2000	1730.00	2000	2312.00

Notes

- Coefficients scale linearly, so multiply for values between rows.
- Valve sizing for gas and flashing liquids needs the full IEC 60534 equations.

Free download from instrumentationblog.in. Check values against the current edition of the standard for design work.