

## KDS024 Valve Constant Correction Factors for Viscous Liquids

Kinematic Viscosity (cSt) (1 x 10 <sup>-6</sup> m <sup>2</sup> /s)	Saybolt Seconds Universal (SSU)	C <sub>v</sub> Correction Factor (K <sub>r</sub> )
1.0	31	1.0
1.5	32	1.0
2.0	33	1.0
3.0	36	1.03
4.0	39	1.05
5.0	42	1.07
8.0	52	1.08
10	59	1.11
15	77	1.16
20	98	1.20
25	119	1.22
30	141	1.25
40	186	1.30
60	278	1.37
80	371	1.42
100	464	1.45
150	695	1.53
200	927	1.57
250	1159	1.61
300	1390	1.63
400	1854	1.67
600	2781	1.74
800	3708	1.78
1000	4635	1.82
1500	6950	1.90
2000	9270	1.93

**Notes:**

- The Equation for the Valve Constant includes  $K_r$  when the liquid has a viscosity other than that of water at 20°C as follows:

$$C_v = K_r Q \sqrt{\frac{SG}{\Delta P}}$$