



Circuit Setter®

Correction factors for viscosity and specific gravity

$$GPM_f = \frac{\phi}{\sqrt{s.g.}} GPM_s$$

$$f = \frac{\phi}{\sqrt{s.g.}}$$

$$GPM_f = f GPM_s$$

GPM_f – Fluid flow

GPM_s – Flow thru setter
@ measured conditions

φ – Viscosity correction

s.g. – Specific gravity (to water)

	Viscosity centipoise	1	10	15	25	35	60	100	200	500
	φ	1	0.95	0.90	0.85	0.80	0.75	0.70	0.65	0.60
S.G.	√S.G.	←----- f ----->								
0.60	0.775	1.29	1.23	1.16	1.10	1.03	0.97	0.90	0.84	0.78
0.65	0.806	1.24	1.18	1.12	1.05	0.99	0.93	0.87	0.81	0.75
0.70	0.837	1.20	1.14	1.08	1.02	0.96	0.90	0.84	0.78	0.72
0.75	0.866	1.16	1.10	1.04	0.98	0.92	0.87	0.81	0.75	0.69
0.80	0.894	1.12	1.06	1.01	0.95	0.89	0.84	0.78	0.73	0.67
0.85	0.922	1.08	1.03	0.98	0.92	0.87	0.81	0.76	0.71	0.65
0.90	0.949	1.05	1.00	0.95	0.90	0.84	0.79	0.74	0.69	0.63
0.95	0.975	1.03	0.97	0.92	0.87	0.82	0.77	0.72	0.67	0.62
1.00	1.00	1.00	0.95	0.90	0.85	0.80	0.75	0.70	0.65	0.60
1.05	1.025	0.98	0.93	0.88	0.83	0.78	0.73	0.68	0.63	0.59
1.10	1.049	0.95	0.91	0.86	0.81	0.76	0.72	0.67	0.62	0.57
1.15	1.072	0.93	0.89	0.84	0.79	0.75	0.70	0.65	0.61	0.56
1.20	1.096	0.91	0.87	0.82	0.78	0.73	0.68	0.64	0.59	0.54
1.25	1.118	0.89	0.85	0.81	0.76	0.72	0.67	0.63	0.58	0.54
1.30	1.140	0.88	0.84	0.79	0.75	0.70	0.66	0.62	0.57	0.53
1.35	1.162	0.86	0.82	0.78	0.73	0.69	0.65	0.60	0.56	0.52
1.40	1.183	0.85	0.80	0.76	0.72	0.68	0.63	0.59	0.55	0.51

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Plus valves



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