



MATHESON

ask. . .The Gas Professionals™

ROTAMETER PRESSURE CORRECTION FACTORS

PRESSURE (PSIG) FOR WHICH ROTAMETER IS CALIBRATED	PRESSURE (PSIG) FOR WHICH CORRECTION IS TO BE MADE																									
	0	2	4	6	8	10	15	20	25	30	35	40	50	60	70	80	90	100	120	140	160	180	200	220	240	260
0 OR 14.7 PSIA	1.000	1.066	1.128	1.187	1.243	1.296	1.421	1.536	1.643	1.744	1.838	1.929	2.098	2.254	2.400	2.538	2.669	2.793	3.027	3.244	3.447	3.639	3.822	3.996	4.163	4.323
2	0.938	1.000	1.058	1.114	1.166	1.217	1.334	1.442	1.542	1.636	1.725	1.810	1.967	2.114	2.251	2.381	2.504	2.621	2.839	3.043	3.234	3.413	3.583	3.749	3.905	4.056
4	0.887	0.945	1.000	1.052	1.102	1.149	1.261	1.362	1.457	1.546	1.631	1.710	1.860	1.999	2.128	2.251	2.366	2.476	2.683	2.876	3.056	3.226	3.387	3.543	3.691	3.833
6	0.843	0.898	0.951	1.000	1.047	1.093	1.198	1.295	1.385	1.469	1.549	1.625	1.767	1.900	2.022	2.138	2.248	2.354	2.550	2.733	2.905	3.066	3.219	3.368	3.508	3.643
8	0.805	0.858	0.908	0.955	1.000	1.043	1.144	1.235	1.323	1.403	1.480	1.552	1.688	1.814	1.932	2.043	2.148	2.247	2.435	2.610	2.774	2.928	3.073	3.215	3.350	3.479
10	0.771	0.822	0.870	0.915	0.958	1.000	1.096	1.185	1.268	1.345	1.418	1.488	1.618	1.739	1.852	1.959	2.059	2.155	2.335	2.502	2.658	2.806	2.946	3.083	3.211	3.335
15	0.704	0.750	0.793	0.835	0.874	0.912	1.000	1.081	1.156	1.227	1.293	1.357	1.476	1.586	1.690	1.786	1.877	1.965	2.129	2.282	2.424	2.559	2.687	2.811	2.928	3.041
20	0.651	0.693	0.734	0.772	0.808	0.844	0.925	1.000	1.070	1.135	1.197	1.255	1.365	1.467	1.562	1.652	1.737	1.818	1.970	2.111	2.243	2.368	2.486	2.601	2.709	2.814
25	0.609	0.649	0.686	0.722	0.756	0.789	0.865	0.935	1.000	1.061	1.119	1.174	1.277	1.371	1.460	1.544	1.623	1.700	1.842	1.974	2.098	2.215	2.323	2.431	2.533	2.630
30	0.573	0.611	0.647	0.681	0.713	0.743	0.815	0.881	0.943	1.000	1.055	1.106	1.204	1.292	1.376	1.455	1.530	1.603	1.736	1.860	1.977	2.087	2.190	2.291	2.387	2.474
35	0.544	0.579	0.613	0.646	0.676	0.705	0.773	0.835	0.894	0.948	1.000	1.049	1.142	1.226	1.305	1.380	1.451	1.520	1.646	1.764	1.874	1.979	2.077	2.173	2.264	2.351
40	0.518	0.552	0.585	0.615	0.644	0.672	0.736	0.797	0.852	0.904	0.953	1.000	1.089	1.168	1.243	1.315	1.383	1.448	1.569	1.682	1.787	1.887	1.980	2.071	2.158	2.241
50	0.477	0.508	0.538	0.566	0.592	0.618	0.678	0.733	0.784	0.831	0.876	0.919	1.000	1.075	1.144	1.210	1.272	1.331	1.443	1.546	1.643	1.735	1.822	1.905	1.984	2.061
60	0.444	0.473	0.500	0.526	0.551	0.575	0.631	0.682	0.729	0.773	0.816	0.856	0.931	1.000	1.065	1.126	1.184	1.239	1.343	1.439	1.529	1.615	1.695	1.773	1.847	1.918
70	0.417	0.444	0.470	0.494	0.518	0.540	0.592	0.640	0.685	0.726	0.766	0.804	0.874	0.939	1.000	1.057	1.112	1.164	1.261	1.351	1.436	1.516	1.591	1.665	1.734	1.801
80	0.394	0.420	0.444	0.468	0.489	0.511	0.560	0.605	0.648	0.687	0.724	0.760	0.826	0.888	0.946	1.000	1.052	1.100	1.192	1.278	1.358	1.434	1.505	1.574	1.640	1.703
90	0.375	0.399	0.423	0.445	0.466	0.486	0.533	0.576	0.616	0.654	0.689	0.723	0.786	0.845	0.899	0.951	1.000	1.046	1.134	1.216	1.292	1.364	1.432	1.497	1.560	1.620
100	0.359	0.382	0.404	0.425	0.445	0.464	0.509	0.550	0.588	0.624	0.658	0.691	0.751	0.807	0.859	0.909	0.956	1.000	1.084	1.161	1.234	1.303	1.368	1.430	1.490	1.548
120	0.330	0.352	0.373	0.392	0.411	0.428	0.470	0.508	0.543	0.576	0.608	0.637	0.693	0.745	0.793	0.839	0.882	0.923	1.000	1.072	1.138	1.202	1.262	1.320	1.375	1.428
140	0.308	0.329	0.348	0.366	0.383	0.400	0.438	0.474	0.507	0.538	0.567	0.594	0.647	0.695	0.740	0.782	0.822	0.861	0.933	1.000	1.063	1.122	1.177	1.232	1.283	1.333
160	0.290	0.309	0.327	0.344	0.360	0.376	0.413	0.446	0.477	0.506	0.534	0.560	0.609	0.654	0.696	0.736	0.774	0.810	0.879	0.941	1.000	1.055	1.108	1.159	1.207	1.254
180	0.275	0.293	0.310	0.326	0.342	0.356	0.391	0.422	0.452	0.479	0.505	0.530	0.576	0.619	0.660	0.697	0.733	0.767	0.832	0.891	0.948	1.000	1.049	1.098	1.144	1.188
200	0.262	0.279	0.295	0.311	0.325	0.339	0.372	0.402	0.430	0.456	0.481	0.505	0.549	0.590	0.629	0.664	0.698	0.731	0.792	0.850	0.903	0.953	1.000	1.046	1.089	1.131
220	0.250	0.267	0.282	0.297	0.311	0.324	0.356	0.385	0.411	0.436	0.460	0.483	0.525	0.564	0.601	0.635	0.668	0.699	0.758	0.812	0.863	0.911	0.957	1.000	1.042	1.083
240	0.240	0.256	0.271	0.285	0.299	0.311	0.342	0.369	0.395	0.419	0.442	0.463	0.504	0.542	0.577	0.610	0.641	0.671	0.727	0.779	0.828	0.874	0.918	0.960	1.000	1.039
260	0.231	0.247	0.261	0.275	0.288	0.300	0.329	0.355	0.380	0.403	0.425	0.446	0.485	0.522	0.555	0.587	0.617	0.646	0.700	0.750	0.798	0.842	0.884	0.924	0.963	1.000

FOR ROTAMETER CALIBRATED IN FREE UNITS: ROTAMETER SCALE READING x FACTOR = CORRECTED FLOW FOR NEW CONDITION