

Normal Shock Factors for an Ideal Gas with  $k=1.4$  (e.g. Air)

$Ma_1$	$Ma_2$	$P_2/P_1$	$\rho_2/\rho_1$	$T_2/T_1$	$P_{02}/P_{01}$	$P_1/P_{02}$	$Ma_1$	$Ma_2$	$P_2/P_1$	$\rho_2/\rho_1$	$T_2/T_1$	$P_{02}/P_{01}$	$P_1/P_{02}$
1.00	1.0000	1.000	1.0000	1.0000	1.0000	0.5283	3.55	0.4492	14.54	4.2957	3.3839	0.2039	5.990E-02
1.05	0.9531	1.120	1.0840	1.0328	0.9999	0.4979	3.60	0.4474	14.95	4.3296	3.4537	0.1953	5.829E-02
1.10	0.9118	1.245	1.1691	1.0649	0.9989	0.4689	3.65	0.4456	15.38	4.3627	3.5245	0.1871	5.675E-02
1.15	0.8750	1.376	1.2550	1.0966	0.9967	0.4413	3.70	0.4439	15.81	4.3949	3.5962	0.1792	5.526E-02
1.20	0.8422	1.513	1.3416	1.1280	0.9928	0.4154	3.75	0.4423	16.24	4.4262	3.6689	0.1717	5.384E-02
1.25	0.8126	1.656	1.4286	1.1594	0.9871	0.3911	3.80	0.4407	16.68	4.4568	3.7426	0.1645	5.247E-02
1.30	0.7860	1.805	1.5157	1.1909	0.9794	0.3685	3.85	0.4392	17.13	4.4866	3.8172	0.1576	5.114E-02
1.35	0.7618	1.960	1.6028	1.2226	0.9697	0.3475	3.90	0.4377	17.58	4.5156	3.8928	0.1510	4.987E-02
1.40	0.7397	2.120	1.6897	1.2547	0.9582	0.3280	3.95	0.4363	18.04	4.5439	3.9694	0.1448	4.865E-02
1.45	0.7196	2.286	1.7761	1.2872	0.9448	0.3098	4.00	0.4350	18.50	4.5714	4.0469	0.1388	4.747E-02
1.50	0.7011	2.458	1.8621	1.3202	0.9298	0.2930	4.05	0.4336	18.97	4.5983	4.1254	0.1330	4.633E-02
1.55	0.6841	2.636	1.9473	1.3538	0.9132	0.2773	4.10	0.4324	19.45	4.6245	4.2048	0.1276	4.523E-02
1.60	0.6684	2.820	2.0317	1.3880	0.8952	0.2628	4.15	0.4311	19.93	4.6500	4.2852	0.1223	4.417E-02
1.65	0.6540	3.010	2.1152	1.4228	0.8760	0.2493	4.20	0.4299	20.41	4.6749	4.3666	0.1173	4.314E-02
1.70	0.6405	3.205	2.1977	1.4583	0.8557	0.2368	4.25	0.4288	20.91	4.6992	4.4489	0.1126	4.215E-02
1.75	0.6281	3.406	2.2791	1.4946	0.8346	0.2251	4.30	0.4277	21.41	4.7229	4.5322	0.1080	4.120E-02
1.80	0.6165	3.613	2.3592	1.5316	0.8127	0.2142	4.35	0.4266	21.91	4.7460	4.6165	0.1036	4.027E-02
1.85	0.6057	3.826	2.4381	1.5693	0.7902	0.2040	4.40	0.4255	22.42	4.7685	4.7017	9.948E-02	3.938E-02
1.90	0.5956	4.045	2.5157	1.6079	0.7674	0.1945	4.45	0.4245	22.94	4.7904	4.7879	9.550E-02	3.852E-02
1.95	0.5862	4.270	2.5919	1.6473	0.7442	0.1856	4.50	0.4236	23.46	4.8119	4.8751	9.170E-02	3.768E-02
2.00	0.5774	4.500	2.6667	1.6875	0.7209	0.1773	4.60	0.4217	24.52	4.8532	5.0523	8.459E-02	3.609E-02
2.05	0.5691	4.736	2.7400	1.7285	0.6975	0.1695	4.70	0.4199	25.61	4.8926	5.2334	7.809E-02	3.459E-02
2.10	0.5613	4.978	2.8119	1.7705	0.6742	0.1622	4.80	0.4183	26.71	4.9301	5.4184	7.214E-02	3.319E-02
2.15	0.5540	5.226	2.8823	1.8132	0.6511	0.1553	4.90	0.4167	27.85	4.9659	5.6073	6.670E-02	3.187E-02
2.20	0.5471	5.480	2.9512	1.8569	0.6281	0.1489	5.00	0.4152	29.00	5.0000	5.8000	6.172E-02	3.062E-02
2.25	0.5406	5.740	3.0186	1.9014	0.6055	0.1428	5.10	0.4138	30.18	5.0326	5.9966	5.715E-02	2.945E-02
2.30	0.5344	6.005	3.0845	1.9468	0.5833	0.1371	5.20	0.4125	31.38	5.0637	6.1971	5.297E-02	2.834E-02
2.35	0.5286	6.276	3.1490	1.9931	0.5615	0.1317	5.30	0.4113	32.61	5.0934	6.4014	4.913E-02	2.730E-02
2.40	0.5231	6.553	3.2119	2.0403	0.5401	0.1266	5.40	0.4101	33.85	5.1218	6.6097	4.560E-02	2.631E-02
2.45	0.5179	6.836	3.2733	2.0885	0.5193	0.1218	5.50	0.4090	35.13	5.1489	6.8218	4.236E-02	2.537E-02
2.50	0.5130	7.125	3.3333	2.1375	0.4990	0.1173	5.60	0.4079	36.42	5.1749	7.0378	3.938E-02	2.448E-02
2.55	0.5083	7.420	3.3919	2.1875	0.4793	0.1130	5.70	0.4069	37.74	5.1998	7.2577	3.664E-02	2.364E-02
2.60	0.5039	7.720	3.4490	2.2383	0.4601	0.1089	5.80	0.4059	39.08	5.2236	7.4814	3.412E-02	2.284E-02
2.65	0.4996	8.026	3.5047	2.2902	0.4416	0.1051	5.90	0.4050	40.45	5.2464	7.7091	3.179E-02	2.208E-02
2.70	0.4956	8.338	3.5590	2.3429	0.4236	0.1014	6.00	0.4042	41.83	5.2683	7.9406	2.965E-02	2.136E-02
2.75	0.4918	8.656	3.6119	2.3966	0.4062	9.792E-02	6.10	0.4033	43.25	5.2893	8.1760	2.767E-02	2.067E-02
2.80	0.4882	8.980	3.6636	2.4512	0.3895	9.461E-02	6.20	0.4025	44.68	5.3094	8.4153	2.584E-02	2.002E-02
2.85	0.4847	9.310	3.7139	2.5067	0.3733	9.147E-02	6.30	0.4018	46.14	5.3287	8.6584	2.416E-02	1.939E-02
2.90	0.4814	9.645	3.7629	2.5632	0.3577	8.848E-02	6.40	0.4011	47.62	5.3473	8.9055	2.259E-02	1.880E-02
2.95	0.4782	9.986	3.8106	2.6206	0.3428	8.563E-02	6.50	0.4004	49.13	5.3651	9.1564	2.115E-02	1.823E-02
3.00	0.4752	10.33	3.8571	2.6790	0.3283	8.291E-02	6.60	0.3997	50.65	5.3822	9.4113	1.981E-02	1.768E-02
3.05	0.4723	10.69	3.9025	2.7383	0.3145	8.032E-02	6.70	0.3991	52.21	5.3987	9.6700	1.857E-02	1.716E-02
3.10	0.4695	11.05	3.9466	2.7986	0.3012	7.785E-02	6.80	0.3985	53.78	5.4145	9.9326	1.741E-02	1.667E-02
3.15	0.4669	11.41	3.9896	2.8598	0.2885	7.549E-02	6.90	0.3979	55.38	5.4298	10.1990	1.634E-02	1.619E-02
3.20	0.4643	11.78	4.0315	2.9220	0.2762	7.323E-02	7.00	0.3974	57.00	5.4444	10.4694	1.535E-02	1.573E-02
3.25	0.4619	12.16	4.0723	2.9851	0.2645	7.107E-02	7.50	0.3949	65.46	5.5102	11.8795	1.133E-02	1.372E-02
3.30	0.4596	12.54	4.1120	3.0492	0.2533	6.900E-02	8.00	0.3929	74.50	5.5652	13.3867	8.488E-03	1.207E-02
3.35	0.4573	12.93	4.1507	3.1142	0.2425	6.702E-02	8.50	0.3912	84.13	5.6117	14.9911	6.449E-03	1.070E-02
3.40	0.4552	13.32	4.1884	3.1802	0.2322	6.513E-02	9.00	0.3898	94.33	5.6512	16.6927	4.964E-03	9.546E-03
3.45	0.4531	13.72	4.2251	3.2472	0.2224	6.331E-02	9.50	0.3886	105.1	5.6850	18.4915	3.866E-03	8.572E-03
3.50	0.4512	14.13	4.2609	3.3151	0.2129	6.157E-02	10.0	0.3876	116.5	5.7143	20.3875	3.045E-03	7.739E-03