

Experimental Data from Manometer and Pitot-Static Rake

Data Point :	Motor Spes	Manomete	Ambient Te	Viscosity [c	Ambient Pr	Omega Tra	RakeT1 [ps	RakeT2 [psi	RakeT3 [psi	RakeT4 [psi	RakeT5 [psi	RakeT6 [psi	RakeT7 [psi	RakeT8 [psi	RakeT9 [psi	RakeS1 [ps	RakeS2 [ps	RakeS3 [ps	RakeS4 [ps	RakeS5 [psid]
1.00E+00	0.00E+00	0.00E+00	5.30E+02	3.80E-07	1.43E+01	2.70E-05	1.33E-04	-2.70E-06	7.30E-05	5.33E-05	7.06E-05	9.55E-05	1.24E-05	-3.87E-05	5.90E-06	-1.49E-05	-3.13E-05	-7.78E-05	6.67E-08	-5.53E-05
2.00E+00	4.00E+02	5.42E-03	5.30E+02	3.80E-07	1.43E+01	5.33E-03	4.42E-03	4.24E-03	4.36E-03	4.29E-03	4.37E-03	4.39E-03	4.25E-03	4.20E-03	4.18E-03	4.38E-05	8.13E-05	-3.48E-05	4.42E-05	-2.50E-05
3.00E+00	5.00E+02	8.60E-03	5.30E+02	3.80E-07	1.43E+01	8.43E-03	7.12E-03	6.96E-03	7.08E-03	7.03E-03	7.12E-03	7.17E-03	6.93E-03	6.90E-03	6.86E-03	8.31E-05	1.43E-04	-2.15E-05	7.70E-05	-8.97E-06
4.00E+00	6.00E+02	1.25E-02	5.30E+02	3.80E-07	1.43E+01	1.24E-02	1.05E-02	1.03E-02	1.04E-02	1.04E-02	1.05E-02	1.05E-02	1.03E-02	1.03E-02	1.01E-02	2.10E-04	3.02E-04	1.03E-04	2.12E-04	1.04E-04
5.00E+00	7.00E+02	1.76E-02	5.30E+02	3.80E-07	1.43E+01	1.74E-02	1.49E-02	1.47E-02	1.47E-02	1.47E-02	1.49E-02	1.49E-02	1.46E-02	1.46E-02	1.46E-02	6.00E-05	2.19E-04	-5.64E-05	7.75E-05	-7.19E-05
6.00E+00	8.00E+02	2.35E-02	5.30E+02	3.80E-07	1.43E+01	2.30E-02	1.98E-02	1.95E-02	1.96E-02	1.96E-02	1.99E-02	1.99E-02	1.96E-02	1.95E-02	1.96E-02	3.84E-04	5.80E-04	2.40E-04	4.12E-04	2.35E-04
7.00E+00	9.00E+02	3.03E-02	5.30E+02	3.80E-07	1.43E+01	2.97E-02	2.58E-02	2.56E-02	2.57E-02	2.57E-02	2.60E-02	2.60E-02	2.56E-02	2.56E-02	2.54E-02	5.02E-04	7.59E-04	3.34E-04	4.46E-04	3.03E-04
8.00E+00	1.00E+03	3.76E-02	5.30E+02	3.80E-07	1.43E+01	3.71E-02	3.24E-02	3.21E-02	3.22E-02	3.22E-02	3.25E-02	3.26E-02	3.20E-02	3.21E-02	3.20E-02	4.96E-04	8.06E-04	3.13E-04	5.43E-04	2.69E-04
9.00E+00	1.10E+03	4.55E-02	5.30E+02	3.80E-07	1.43E+01	4.52E-02	3.96E-02	3.92E-02	3.94E-02	3.94E-02	3.98E-02	3.99E-02	3.93E-02	3.94E-02	3.93E-02	4.25E-04	8.09E-04	2.58E-04	5.46E-04	1.54E-04
1.00E+01	1.20E+03	5.43E-02	5.30E+02	3.80E-07	1.43E+01	5.38E-02	4.80E-02	4.76E-02	4.77E-02	4.78E-02	4.83E-02	4.85E-02	4.76E-02	4.77E-02	4.77E-02	3.72E-04	8.30E-04	1.43E-04	5.28E-04	1.24E-05
1.10E+01	1.30E+03	6.42E-02	5.30E+02	3.80E-07	1.43E+01	6.31E-02	5.56E-02	5.52E-02	5.53E-02	5.54E-02	5.59E-02	5.61E-02	5.51E-02	5.53E-02	5.51E-02	6.20E-04	1.16E-03	2.21E-04	7.68E-04	1.86E-04
1.20E+01	1.40E+03	7.41E-02	5.30E+02	3.80E-07	1.43E+01	7.38E-02	6.53E-02	6.47E-02	6.49E-02	6.51E-02	6.57E-02	6.60E-02	6.48E-02	6.50E-02	6.51E-02	5.99E-04	1.12E-03	3.18E-05	7.77E-04	4.76E-05
1.30E+01	1.00E+03	3.76E-02	5.30E+02	3.80E-07	1.43E+01	3.72E-02	3.28E-02	3.25E-02	3.25E-02	3.26E-02	3.30E-02	3.31E-02	3.24E-02	3.25E-02	3.24E-02	3.08E-04	5.79E-04	1.14E-04	3.59E-04	6.43E-05