LAMPIRAN

Lampiran A. Tabel *Water Properties* dalam SI

Temp, °C	Unit gravity force γ, N/m³	Density ρ, kg/m³	Viscosity μ, Pa·s	Kinematic viscosity ν, m²/s $10^6\ \nu =$	Surface tension σ, N/m $100\ \sigma =$	Vapor-pressure p_v kPa	Bulk modulus of elasticity K, GPa
0	9805	999.9	1.792	1.792	7.62	0.6	2.04
5	9806	1000.0	1.519	1.519	7.54	0.9	2.06
10	9803	999.7	1.308	1.308	7.48	1.2	2.11
15	9798	999.1	1.140	1.141	7.41	1.7	2.14
20	9789	998.2	1.005	1.007	7.36	2.5	2.20
25	9779	997.1	0.894	0.897	7.26	3.2	2.22
30	9767	995.7	0.801	0.804	7.18	4.3	2.23
35	9752	994.1	0.723	0.727	7.10	5.7	2.24
40	9737	992.2	0.656	0.661	7.01	7.5	2.27
45	9720	990.2	0.599	0.605	6.92	9.6	2.29
50	9697	988.1	0.549	0.556	6.82	12.4	2.30
55	9679	985.7	0.506	0.513	6.74	15.8	2.31
60	9658	983.2	0.469	0.477	6.68	19.9	2.28
65	9635	980.6	0.436	0.444	6.58	25.1	2.26
70	9600	977.8	0.406	0.415	6.50	31.4	2.25
75	9589	974.9	0.380	0.390	6.40	38.8	2.23
80	9557	971.8	0.357	0.367	6.30	47.7	2.21
85	9529	968.6	0.336	0.347	6.20	58.1	2.17
90	9499	965.3	0.317	0.328	6.12	70.4	2.16
95	9469	961.9	0.299	0.311	6.02	84.5	2.11
100	9438	958.4	0.284	0.296	5.94	101.3	2.07

Sumber: Tabel A.1.1. *Variation of Some Properties of Water with Temperature* (Douglas, 704)

Lampiran B. Data Hasil Pengujian

1. Data Hasil Pengujian Peletakan *Vortab Flow Conditioner* Pada Jarak 2D

No.	Debit (Liter/jam)	Debit (m^3/s)	V (m/s)	Bil. *Reynolds* (Re)
1	250	6,94	0,0342487	1848
2	500	13,9	0,0684975	3697
3	750	20,8	0,1027462	5546
4	1000	27,8	0,1369949	7395
5	1250	34,7	0,1712437	9244

Pengujian 1		Pengujian 2		Pengujian 3	
H_1-H_2	H_1-H_3	H_1-H_2	H_1-H_3	H_1-H_2	H_1-H_3
28	21	19	25	29	23
39	28	41	35	34	31
54	47	39	50	38	54
57	59	53	45	46	56
83	71	72	73	77	75

2. <u>Data Hasil Pengujian Peletakan *Vortab Flow Conditioner* Pada Jarak 3D</u>

No.	Debit (Liter/jam)	Debit (m3/s)	V (m/s)	Bil. *Reynolds* (Re)
1	250	6,94	0,0342487	1848
2	500	13,9	0,0684975	3697
3	750	20,8	0,1027462	5546
4	1000	27,8	0,1369949	7395
5	1250	34,7	0,1712437	9244

Pengujian 1		Pengujian 2		Pengujian 3	
H_1-H_2	H_1-H_3	H_1-H_2	H_1-H_3	H_1-H_2	H_1-H_3
29	27	19	27	29	26
30	32	41	34	34	40
55	39	39	40	38	45
60	61	53	59	46	58
84	80	72	72	77	76

3. Data Hasil Pengujian Peletakan *Vortab Flow Conditioner* Pada Jarak 4D

No.	Debit (Liter/jam)	Debit (m3/s)	V (m/s)	Bil. *Reynolds* (Re)
1	250	6,94	0,0342487	1848
2	500	13,9	0,0684975	3697
3	750	20,8	0,1027462	5546
4	1000	27,8	0,1369949	7395
5	1250	34,7	0,1712437	9244

Pengujian 1		Pengujian 2		Pengujian 3	
H_1-H_2	H_1-H_3	H_1-H_2	H_1-H_3	H_1-H_2	H_1-H_3
34	30	37	31	41	32
37	36	40	36	38	37
58	55	64	59	61	63
78	73	73	73	80	84
90	86	95	91	89	94

4. Data Hasil Pengujian Peletakan *Vortab Flow Conditioner* Pada Jarak 5D

No.	Debit (Liter/jam)	Debit (m3/s)	V (m/s)	Bil. *Reynolds* (Re)
1	250	6,94	0,0342487	1848
2	500	13,9	0,0684975	3697
3	750	20,8	0,1027462	5546
4	1000	27,8	0,1369949	7395
5	1250	34,7	0,1712437	9244

Pengujian 1		Pengujian 2		Pengujian 3	
H_1-H_2	H_1-H_3	H_1-H_2	H_1-H_3	H_1-H_2	H_1-H_3
50	42	45	42	41	45
63	59	67	54	38	63
72	71	81	76	61	83
91	95	85	89	80	89
102	100	99	101	89	105

5. **Data Hasil Pengujian Tanpa Peletakan *Vortab Flow Conditioner***

No.	Debit (Liter/jam)	Debit (m3/s)	V (m/s)	Bil. *Reynolds* (Re)
1	250	6,94	0,0342487	1848
2	500	13,9	0,0684975	3697
3	750	20,8	0,1027462	5546
4	1000	27,8	0,1369949	7395
5	1250	34,7	0,1712437	9244

Pengujian 1	Pengujian 2	Pengujian 3
H_1-H_2	H_1-H_2	H_1-H_2
58	57	58
81	75	69
78	72	71
97	80	93
112	104	115