



**Bell & Gossett**  
a xylem brand

**ENGINEERING DATA**

BGD200D03 R1

# Model VAS – Supplemental Data

## 200.D.03 *(Sup. 3B.3W, 7/3/78)*

### COLUMN FRICTION LOSS CHART

#### SUBMERSIBLE PUMPS - Loss in Feet Per 100 Feet of Column - 0-2000 GPM

U.S. Gallons/Min.	COLUMN SIZE – INCHES								U.S. Gallons/Min.
	2½	3	4	5	6	8	10	12	
25									25
30									30
35	1.15								35
40	1.47								40
45	1.84								45
50	2.23	0.76							50
60	3.14	1.06							60
70	4.18	1.41							70
80	5.36	1.82							80
90	6.70	2.26							90
100	8.19	2.76	0.72						100
120	11.50	3.88	1.10						120
140	15.50	5.19	1.35						140
160	20.00	6.69	1.71	0.56					160
180	25.20	8.40	2.41	0.70					180
200	30.70	10.25	2.61	0.85					200
220	37.10	12.30	3.13	1.01	0.41				220
240	43.8	14.5	3.69	1.19	0.48				240
260		16.9	4.30	1.38	0.56				260
280		19.5	4.95	1.55	0.65				280
300		22.1	5.62	1.82	0.73				300
350		30.0	7.54	2.43	0.98				350
400			9.75	3.13	1.25	0.32			400
450			12.25	3.91	1.56	0.40			450
500			14.95	4.78	1.91	0.48			500
600				6.76	2.69	0.69			600
700				9.10	3.60	0.92	0.29		700
800				11.75	4.63	1.17	0.38		800
900				14.82	5.81	1.46	0.47	0.20	900
1000				18.15	7.10	1.79	0.58	0.24	1000
1100					8.52	2.15	0.69	0.29	1100
1200					10.10	2.53	0.81	0.34	1200
1300					11.70	2.94	0.94	0.40	1300
1400					13.58	3.39	1.10	0.46	1400
1500						3.88	1.23	0.52	1500
1600						4.39	1.39	0.59	1600
1700						4.93	1.56	0.66	1700
1800						5.51	1.75	0.73	1800
1900						6.10	1.93	0.81	1900
2000						6.73	2.14	0.89	2000

# Model VAS – Supplemental Data

## 200.D.04 (Sup. 3B.3W, 7/3/78)

### FRICITION LOSS PER 100' OF PLASTIC PIPE

GPM	3"		4"		6"		8"		10"	
	Ft.	Lbs.	Ft.	Lbs.	Ft.	Lbs.	Ft.	Lbs.	Ft.	Lbs.
1										
2										
3										
4										
5										
6										
8										
10										
15										
20	0.13	0.056								
25	0.19	0.083								
30	0.26	0.114								
35	0.35	0.151	0.09	0.041						
40	0.44	0.191	0.12	0.052						
45	0.55	0.239	0.15	0.064						
50	0.66	0.288	0.17	0.076						
60	0.93	0.406	0.25	0.107						
70	1.24	0.540	0.33	0.143						
80	1.58	0.687	0.41	0.180						
90	1.98	0.861	0.52	0.224						
100	2.42	1.05	0.63	0.272	0.08	0.036				
125	3.80	1.65	0.95	0.415	0.13	0.055				
150	5.15	2.24	1.33	0.580	0.18	0.077				
175	6.90	3.00	1.78	0.774	0.23	0.102				
200	8.90	3.87	2.27	0.985	0.30	0.130				
250			3.36	1.460	0.45	0.195	0.12	0.051		
300			4.85	2.11	0.63	0.275	0.17	0.072		
350			6.53	2.84	0.84	0.367	0.22	0.095		
400					1.08	0.471	0.28	0.121		
500					1.66	0.720	0.42	0.182	0.14	0.059
550					1.98	0.861	0.50	0.219	0.16	0.071
600					2.35	1.02	0.59	0.258	0.19	0.083
700							0.79	0.343	0.26	0.112
800							1.02	0.443	0.33	0.143
900							1.27	0.554	0.41	0.179
950									0.46	0.198
1000									0.50	0.218

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