

HEADLOSS (KV) FOR PIPEMATE D/F BUTTERFLY VALVE

DN KV Opening degree (%)	150	200	250	300	350	400	450	500	600	700	800	900	1000	1200	1100	1300	1400	1500	1600
10	393	393	393	388	388	388	388	388	383	383	383	383	383	383	383	380	378	376	375
20	148	148	148	148	148	145	145	145	145	145	132	132	132	132	132	130	128	126	125
30	47	47	47	47	44	44	44	44	44	42	42	42	42	42	41	40	39	38	38
40	20	20	20	20	20	19	19	19	19	19	18.5	18.5	18.5	18.5	18.5	18	17	16.5	16
50	7.9	7.8	7.7	7.6	7.4	7.2	7.1	7.0	6.8	6.7	6.6	6.5	6.5	6.4	6.3	6.3	6.2	6.1	6
60	4.1	4.1	4.1	3.9	3.7	3.5	3.3	3.1	2.9	2.6	2.5	2.4	2.3	2.2	2.2	2.19	2.17	2.16	2.14
70	2.6	2.4	2.2	2.1	2.0	1.8	1.7	1.6	1.5	1.4	1.35	1.3	1.25	1.2	1.23	1.19	1.18	1.17	1.15
80	1.9	1.7	1.5	1.3	1.1	1.0	0.9	0.8	0.7	0.66	0.62	0.58	0.54	0.5	0.52	0.49	0.48	0.47	0.46
90	1.55	1.4	1.3	1.1	0.95	0.86	0.75	0.65	0.55	0.5	0.45	0.4	0.35	0.3	0.33	0.29	0.28	0.27	0.26
100	0.80	0.75	0.50	0.45	0.42	0.38	0.36	0.32	0.29	0.28	0.26	0.24	0.19	0.18	0.18	0.18	0.17	0.17	0.16

Note:

1. The data of the table based on: flow from the shaft side the disk  
: mean value for smooth surface

2. Head loss:  $\Delta p = K_v \cdot \frac{\rho}{2} \cdot v^2$

with:  $\Delta p$ ... head loss (Pa)  
 $K_v$ — $\zeta$  valve taken from diagram  
 $v$ —flow velocity (m/s)  
 $\rho$ —density of water (Kg/m<sup>3</sup>)



**PIPEMATE SDN. BHD**

MALAYSIA  
 TEL : 603 - 61380977  
 FAX : 603 - 61388772

CLIENT :  
 PROJECT :

TITLE : HEAD LOSS FOR PIPEMATE D/F BUTTERFLY VALVE

DR BY : Y. C. SEE  
 CR BY : S. L. TOH  
 REV :  
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SCALE : NTS