

Butterfly Valve Selection

Velocity Chart



Flow in Schedule 40 Pipe (Fluid Velocity in GPM). Use with HDU/HD/L Series Butterfly Valves.

VALVE	SIZE	2 FPS	4 FPS	6 FPS	8 FPS	10 FPS	12 FPS
HDU/HD	2"	19	39	59	78	98	117
HDU/HD	2½"	30	61	92	122	153	184
HDU/HD	3"	44	88	132	176	220	264
HDU/HD	4"	78	157	235	313	392	470
HDU/HD	5"	122	245	367	490	612	734
HDU/HD	6"	176	352	529	705	881	1058
HDU	8"	313	627	940	1253	1567	1880
HDU	10"	490	979	1469	1958	2448	2738
HDU	12"	705	1410	2115	2820	3525	4230
L	8"	313	627	940	1253	1567	1880
L	10"	490	979	1469	1958	2448	2738
HD	12"	705	1410	2115	2820	3525	4230
HD	14"	959	1919	2879	3838	4798	5758
HD	16"	1253	2507	3760	5013	6267	7520
HD	18"	1586	3173	4759	6345	7931	9518
HD	20"	1958	3917	5875	7834	9792	11750
HD	24"	2820	5640	8460	11280	14100	16921

It is not recommended to exceed 12 feet per second through resilient seat butterfly valves. Velocities greater than 12 fps may damage the valve liner and disc. Torque may increase, potentially exceeding the actuator's capacity.

VIC Flow in Schedule 40 Pipe (Fluid Velocity in GPM). Use with Grooved Series Butterfly Valves.

SIZE	1 FPS	3 FPS	5 FPS	8 FPS	10 FPS	12 FPS	15 FPS	16 FPS	20 FPS
2"	10	31	52	84	105	126	157	167	209
2½"	15	45	75	119	149	179	224	239	298
3"	23	69	115	184	230	277	346	369	461
4"	40	119	198	317	397	476	595	635	794
5"	62	187	312	499	624	748	935	998	1247
6"	90	270	450	720	900	1081	1351	1441	1801
8"	156	468	780	1247	1559	1871	2339	2495	3119
10"	246	737	1229	1966	2458	2949	3687	3932	4916
12"	353	1058	1763	2820	3525	4230	5288	5640	7050

SHP Flow in Schedule 40 Pipe (Fluid Velocity in GPM). Use with SHP Series Butterfly Valves.

SIZE	4 FPS	8 FPS	12 FPS	16 FPS	20 FPS	24 FPS	28 FPS	32 FPS
2"	39	78	118	157	196	235	274	313
2½"	61	122	184	245	306	367	428	490
3"	88	176	264	353	441	529	617	705
4"	157	313	470	627	783	940	1097	1253
5"	245	490	734	979	1224	1469	1714	1958
6"	352	705	1058	1410	1763	2115	2468	2820
8"	627	1253	1880	2507	3133	3760	4387	5013
10"	979	1958	2938	3917	4896	5875	6854	7834
12"	1410	2820	4230	5640	7050	8460	9870	11280
14"	1919	3838	5738	7677	9596	11515	13435	15354
16"	2507	5013	7520	10027	12534	15040	17547	20054
18"	3173	6345	9518	12690	15863	19036	22208	25381
20"	3917	7834	11750	15667	19584	23501	27418	31334
24"	5640	11280	16921	22561	28201	33841	39481	45121

It is not recommended to exceed 32 feet per second through high performance butterfly valves. Velocities greater than 32 fps may damage the valve.

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