



Butterfly Valves Series LBFVZ

SUBMITTAL DATA SHEET
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DEFINITION OF A Kv VALUE

The value Kv is the flow rate of pure water at 15°C passing through the valve when the disc is fully opened and the differential pressure between the two ends of the valve is 100 kPa.

$$Kv = Q \sqrt{\frac{G}{\Delta P}}$$

- Q** Maximum Flow(m³/h)
- G** Specific Gravity (g/cm³) (1 for water)
- Δ P** Differential Pressure (kPa)
- Kv** = 0.855 Cv

DEFINITION OF A Cv VALUE

The value Cv is the flow rate of pure water at 60°F passing through the valve when the disc is fully opened and the differential pressure between the two ends of the valve is 1 PSI

$$Cv = V \sqrt{\frac{G}{\Delta P}}$$

- V** Maximum Flow (USGPM)
- G** Specific Gravity (1 for water)
- Δ P** Differential Pressure (PSI)
- Cv** = 1.77 Kv

CV VALUE OF CONCENTRIC BUTTERFLY VALVES

Sizes in	Flow in USGPM @ 1 PSI @ Various Disc Angle								
	10°	20°	30°	40°	50°	60°	70°	80°	Full Open 90°
2	0.1	5	12	24	45	64	90	125	135
2½	0.2	8	20	37	65	98	144	204	220
3	0.3	12	22	39	70	116	183	275	302
4	0.5	17	36	78	139	230	364	546	600
5	0.8	29	61	133	237	392	620	930	1022
6	2	45	95	205	366	605	958	1437	1579
8	3	89	188	408	727	1202	1903	2854	3136
10	4	151	320	694	1237	2047	3240	4859	5340
12	5	234	495	1072	1911	3162	5005	7505	8250
14	6	338	715	1549	2761	4568	7230	10844	11917
16	8	464	983	2130	3797	6282	9942	14913	16388
18	11	615	1302	2822	5028	8320	13168	19752	21705
20	14	791	1674	3628	6465	10698	16931	25396	27908
24	22	1222	2587	5605	9989	16528	26157	39236	43116

Dimensions are subject to change without notice.

TYPICAL SPECIFICATION

Furnish and install as shown on plans, FLO FAB butterfly valves designed to perform the functions as a tight shut off and/or fully open valve.

All valves shall have memory stopper with set screw.

Valve shall be LUG type series LBFVZ from 2" to 24".

The valves shall be of heavy-duty cast iron construction suitable for standard ANSI connections, and rated for a maximum working pressure of 200 PSI (1378.95 kPa) for diameters 2" to 12" and 150 PSI (1034.21 kPa) for diameters 14" to 24" at 225°F (107.2°C). Construction of the shaft will be in 316 stainless steel, seat in EPDM with 304 stainless steel disc.

All valves shall be FLO FAB series LBFVZ.

Dimensions not to be used for construction unless prints certified by factory.