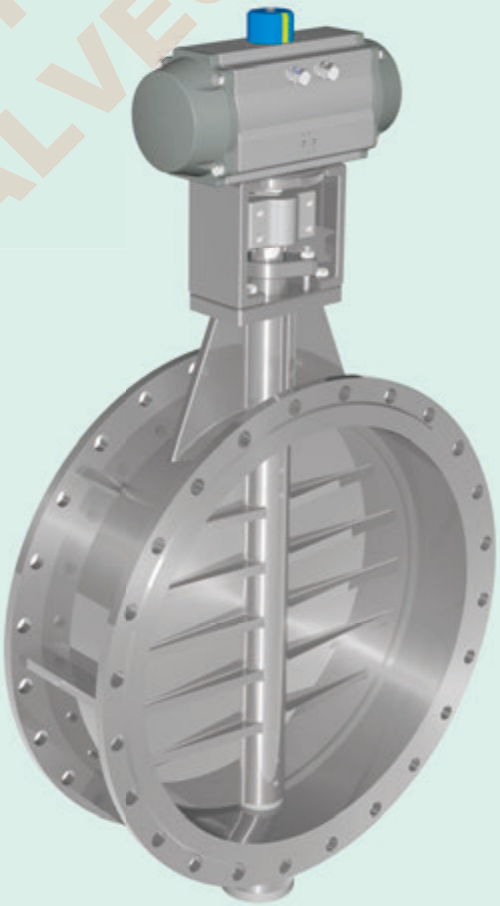
LAPAR

LPB17 Series

Aeration Butterfly Valve

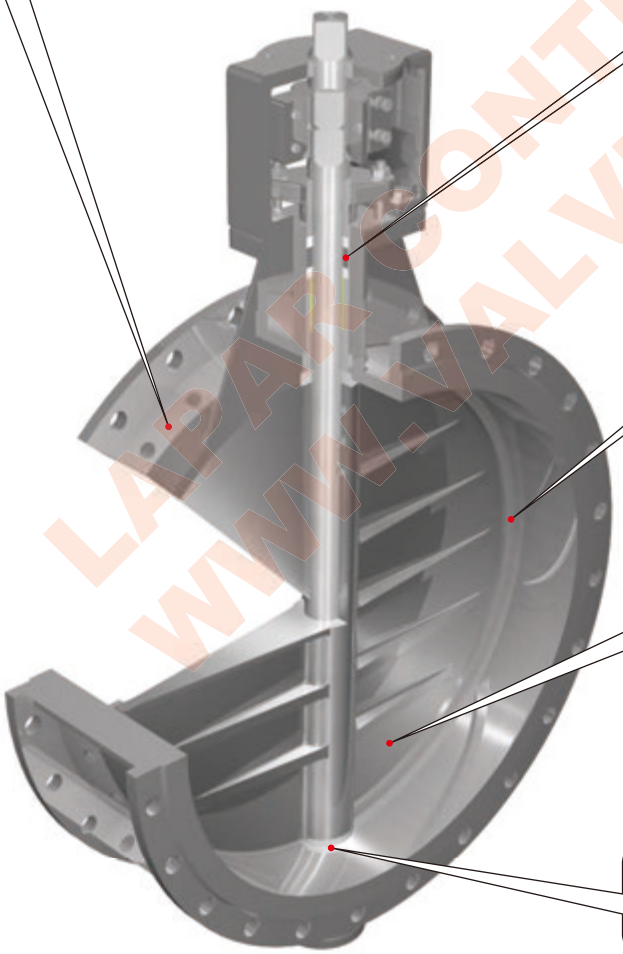


LPB17,aeration butterfly valve, uses the center–line type structure, and the body and disc are welded by steel plates; simple structure, light weight, easy installation, low flow resistance, large circulation; the edge of disc without seal could avoid the influence of high temperature expansion. As a control valve for gas medium, it is widely applied to chemical ,building materials, power station, glass industry and so on.

Design Feature

Body: The body is welded by steel plate for lighter weight ,smaller volume,lower cost,and choosing high temperature resistant material can withstand higher temperature.

V type packing: The sulfur–free flexible v–graphite packing overcomes the faults of normal packing including zero compensation and large deformation, prolongs the service life, and is able to withstand high temperature.



Seat: The seat ring can reduce leakage and ensure the disc close to 0°.

Disc: The disc is made of steel plate, and stiffeners in both sides can make it withstand deformation due to wind effectively.

Ring: The ring has a location effect , which makes the disc turn in the middle of channel.

Code	Actuator	Action	Air Fail Position	Control	Structure	Body	Sealing	Disc	Connection	DN	PN
LPB17-	1 Pneumatic	D Double-acting	1 Normally Open	A On-off	1 Type A	A 316L	0 No	A 316L	1 Flange		
	2 Pneumatic & Handwheel	S Single-acting	2 Normally Close	B Control	0 Others	B 316		B 316			
	3 Electric DC24V	0 Others	3 Flexible	C Intelligent		C 304		C 304			
	4 Electric AC220V		4 Held	0 Others		D WCB		D WCB			
	5 Electric AC380V		0 Others			0 Others		0 Others			
	7 Handle										
	8 Turbine										
	0 Others										

Parameter

Design Standard:

Valve body is designed to meet IEC60534-3-1-2001 and GB/T 12221-2005 API609.

Upper Flange Standard:

Valve mounting flange shall be per ISO 5211.

Flange Standard:

LPB17: JB/T79.1-94、JB/T79.4-94、HG20616-97、ANSI B16.5 、ANSI B16.47

Pressure Rating:

The highest pressure: 1.0MPa

Temperature range: -196℃ ~1100℃

Leak standard:

Leak standard: ANSI B16.104

Main Feature:

1. Medium can flow through the body directly for little resistance and high flow capacity.
2. The body and cover could be made of carbon steel,austenitic stainless steel or special alloy material.
3. The sulfur-free flexible v-graphite is heat resisting ,we shall ensure the service life of packing is long-term without maintenance by increasing pre-pressure on spring gasket.
4. Center line-type butterfly valve uses metal sealing seat,which surrounds the disc to reduce the leakage effectively.

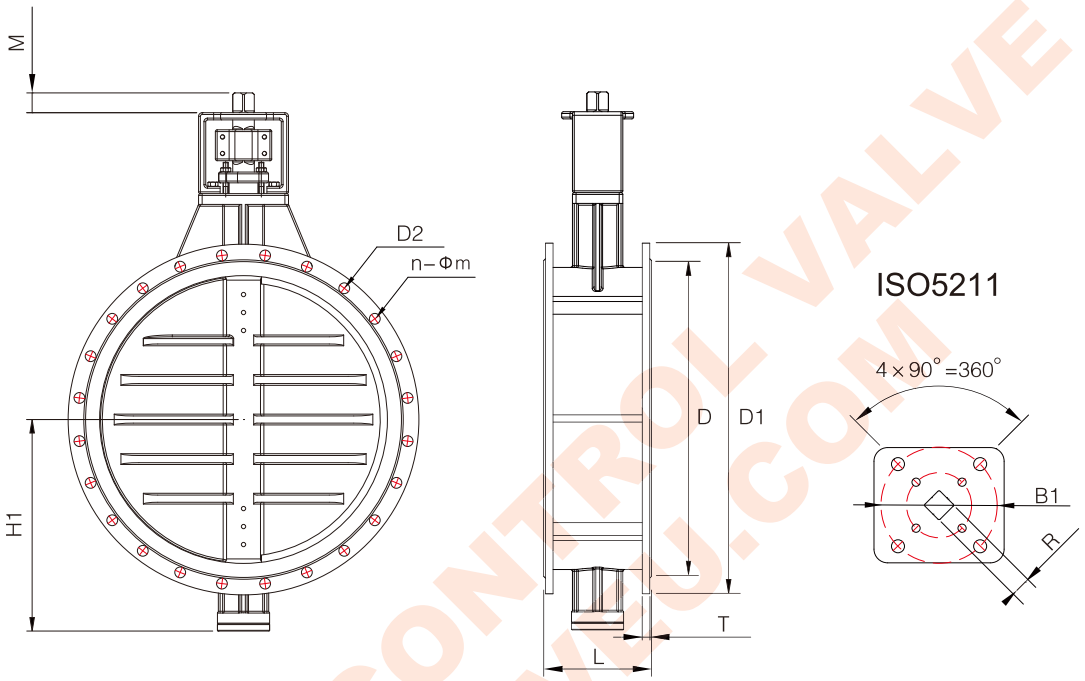
Other:

According to customer requirements.

Part	Body	Disc	Seat	STEM
optional materials	Q235-B/A182-304 A182-316/A182-316L	Q235-B/A182-304 A182-316/A182-316L	No	ASTM A276 420 ASTMA276 F304/F316/F316L

Note: special alloy materials are not in the list, if you want to know more,please call LAPAR.

Size:DN100-3000



PN0.25/1.0 Unit:mm

SIZE		L	D1	D	D2	H1	T	n-Φm	M	R	B1	CV
DN100	4″	120	210	170	170	130	14	4-18	17	17	70	436
DN125	5″	120	240	220	200	150	14	8-18	17	17	70	585
DN150	6″	120	265	225	225	160	14	8-18	17	17	70	965
DN200	8″	140	320	280	280	180	16	8-18	22	22	70	1908
DN250	10″	140	375	335	335	230	16	12-18	22	22	102	3420
DN300	12″	170	440	395	395	262	16	12-22	26	26	102	4920
DN350	14″	170	490	445	445	287	16	12-22	26	26	102	5816
DN400	16″	190	540	495	495	293	16	16-22	32	32	125	8543
DN450	18″	190	595	550	550	320	16	16-22	32	32	125	12420
DN500	20″	190	645	600	600	346	18	20-22	38	38	140	15160
DN600	24″	210	755	705	705	403	20	20-26	38	38	140	20800
DN700	28″	210	860	810	810	467	20	24-26	54	54	165	29900
DN800	32″	210	975	920	920	546	20	24-30	54	54	165	38900
DN900	36″	250	1075	1020	1020	596	20	24-30	–	–	254	49000
DN1000	40″	250	1175	1120	1120	646	20	28-30	–	–	254	63000
DN1200	48″	250	1275	1120	1340	710	20	28-30	–	–	298	73000
DN1400	56″	250	1375	1320	1560	765	20	32-30	–	–	298	109000
DN1500	60″	300	1575	1520	1660	870	20	36-30	–	–	–	117000
DN1600	64″	300	1790	1730	1760	986	24	40-30	–	–	–	125000
DN1800	72″	300	1990	1930	1970	1120	24	44-30	–	–	–	186500
DN2000	80″	300	2190	2130	2180	1250	24	48-30	–	–	–	214600
DN2200	88″	350	2405	2340	2390	1375	24	52-33	–	–	–	286700
DN2400	96″	350	2605	2540	2600	1480	30	56-33	–	–	–	308600
DN2600	104″	350	2805	2740	2810	1600	30	60-33	–	–	–	382200
DN2800	112″	400	3030	2960	3020	1710	30	64-36	–	–	–	470000
DN3000	120″	400	3230	3160	3220	1830	30	68-36	–	–	–	560000

Note：D2 is designed to meet GB9113.1