

LAPAR

LPB13 Series

High-performance Double Eccentric
Butterfly Valve



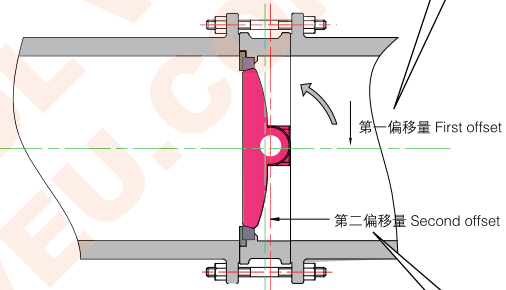


LPB13, high-performance double eccentric butterfly valve, is usually used in high switch frequency industry, such as gas industry or vacuum industry. Under normal circumstances, it can experience one million times. Even if the seat is worn, we just take down the inserts, do not need to dismantle the stem and disc.

Design Feature

Packing : It is combine with layers of V type PTFE and is compressed by briquetting tightly to acquire automatic compensation function. If the briquetting relaxes, you could tighten the nut to keep the seal.

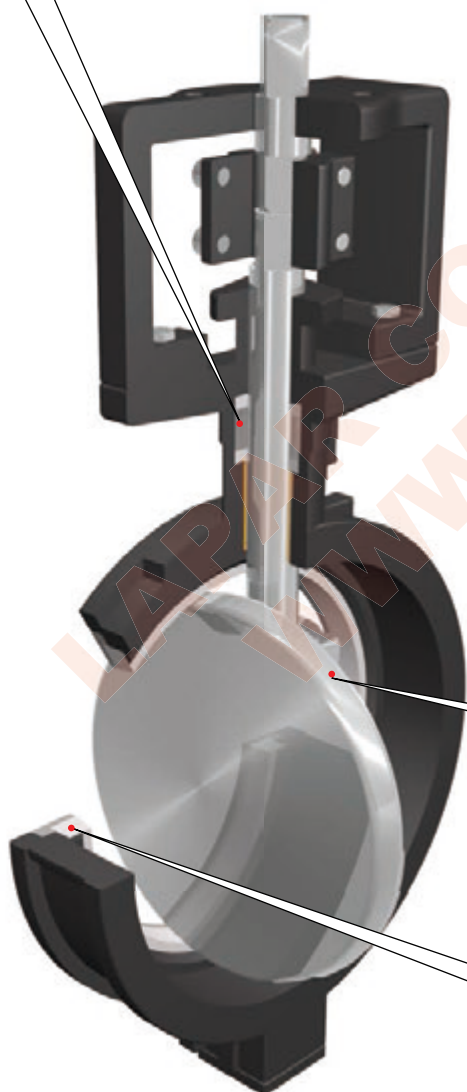
The first eccentric is the stem deviating from the valve plate edge, to ensure that the sealing surface is not interrupted by stem.



The stem locates on the side of valve body, which is the second eccentric. The disc rotates which looks like cam movement during the disc removes from valve seat. When the valve is closed completely, the movement change from cam into line. In the whole process, the disc edge never touches the valve seat.

Disc seal surface : The surface is wide, slippy and can keep seal for a long time.

Seat: It is inserted below briquetting directly in order to replace and dismantle the seat easily when it is worn, we only need to take down the insert without removing the stem and disc.





LPB13— High-performance Double Eccentric Butterfly Valve



| Code | Actuator | Action | Air Fail Position | Control | Structure | Body | Sealing | Disc | Connection DN | PN |
|--------|---|--|--|--|---|---|--|---|---|---|
| LPB13- | <ul style="list-style-type: none"> 1 Pneumatic 2 Pneumatic & Handwheel 3 Electric DC24V 4 Electric AC220V 5 Electric AC380V 7 Handle 8 Turbine 0 Others | <ul style="list-style-type: none"> D Double-acting S Single-acting 0 Others | <ul style="list-style-type: none"> 1 Normally Open 2 Normally Closed 3 Flexible 4 Held 0 Others | <ul style="list-style-type: none"> A On-off B Control C Intelligent 0 Others | <ul style="list-style-type: none"> 3 Two Eccentric 0 Others | <ul style="list-style-type: none"> B 316 C 304 D WCB 0 Others | <ul style="list-style-type: none"> P PTFE 0 Others | <ul style="list-style-type: none"> B 316 C 304 D WCB 0 Others | <ul style="list-style-type: none"> 2 Wafer | <ul style="list-style-type: none"> 0 |

Parameter

Design Standard:

Valve body is designed to meet API609.

Upper Flange Standard:

Valve mounting flange shall be per ISO 5211.

Flange Standard:

LPB13: ANSI 150 B16.5.

Fire-resistant Structure:

The valve experiences fire experiment according to API 607 and BS 6755, has an excellent sealing effect after the event of fire.

Leak Standard:

Leak standard: ANSI B16.104.

Main Feature:

1. The double eccentric structure is composed of offset stem and eccentric disc, The seat and disc sealing surface are nearly frictionless in the open and closed process to reduce the torque and extend the life.
2. The design of monolithic elastic PTFE seat, is suitable for chlorine gas, oxygen, high vacuum, etc. lip type seal makes up the deformation caused by temperature and pressure when it is working and can keep the bidirectional seal.
3. In the process of dismantling the seat, just take down the inserts, do not need to dismantle the stem and disc.
4. Excellent control performance, linear flow characteristic, even if it was used to control fluid, seal performance also doesn't change.
5. The following optional
 - ① Rating 300LB and 600LB
 - ② High-performance butterfly valve for steam
 - ③ High-performance butterfly valve for chlorine
 - ④ High-performance butterfly valve for oxygen
 - ⑤ High-performance butterfly valve for vacuum
 - ⑥ High-performance butterfly valve for low temperature

Others:

According to customer requirements.

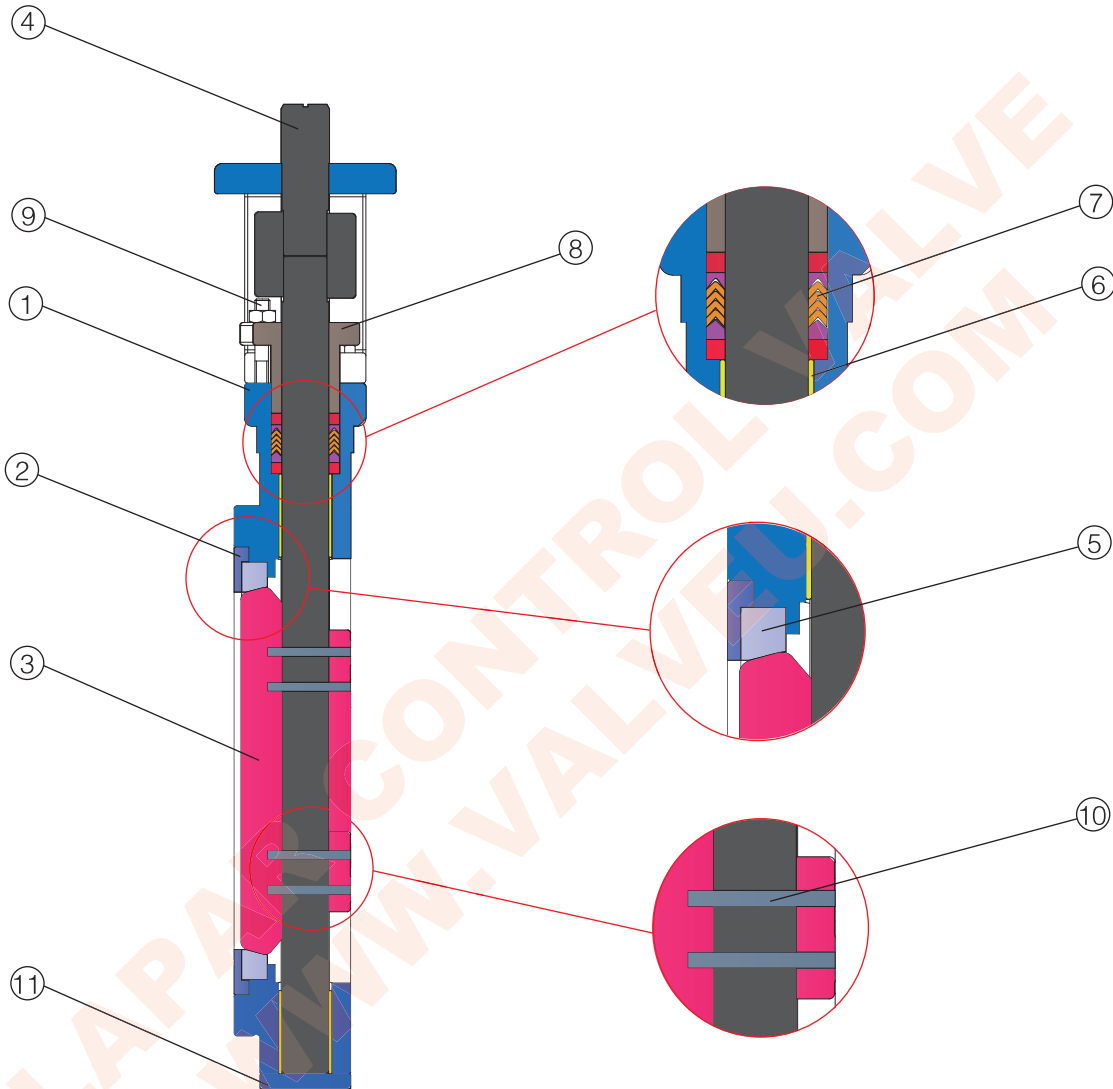


LPB13-

High-performance Double Eccentric Butterfly Valve



DN80-1200 Material



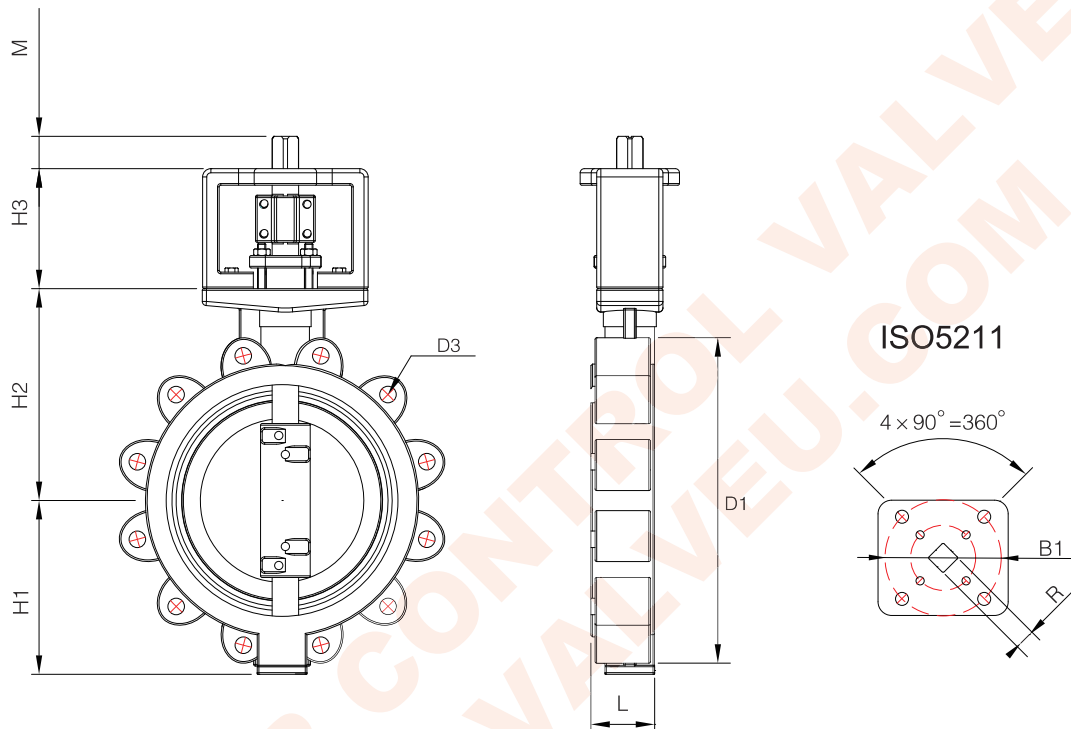
| No. | Part | Material | | |
|-----|-------------------|---|--------------------|------------|
| 1 | Body | WCB | | 316 CF8M |
| 2 | Inserts | WCB | | 316 |
| 3 | Disc | CF8M | MONEL | CF8M |
| 4 | Stem (Shaft) | 316(2-1/2" ~12")或17.4-PH | MONEL | 316或17-4PH |
| 5 | Seat | | | |
| 6 | Axle Sleeve | 316 | MONEL (PTFE Lined) | 316 |
| 7 | Shaft Seal | PTFE or Graphite | | |
| 8 | Pressing Plate | WCB | | 316 |
| 9 | Screw Plug(14") | WCB | | 316 |
| 10 | Pin | 316或17.4-PH(2-1/2" ~12") 17.4-PH(14" ~60") | MONEL | 316或17-4PH |
| 11 | Cover (14" ~60") | WCB | | 316 |



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LT Type Size :DN65–700



ANSI 150LB

Unit:mm

| SIZE | L | D1 | D3 | H1 | H2 | H3 | M | R | B1 | ISO5211 | |
|-------|------|-----|-----|-------|-----|-----|-----|----|----|---------|-----|
| DN65 | 2.5" | 49 | 178 | 140 | 105 | 111 | 145 | 17 | 17 | 70 | F07 |
| DN80 | 3" | 49 | 191 | 152.4 | 122 | 147 | 145 | 17 | 17 | 70 | F07 |
| DN100 | 4" | 54 | 229 | 190.5 | 132 | 162 | 145 | 17 | 17 | 70 | F07 |
| DN125 | 5" | 57 | 264 | 215.9 | 145 | 152 | 145 | 17 | 17 | 70 | F07 |
| DN150 | 6" | 64 | 279 | 241.3 | 159 | 172 | 145 | 22 | 22 | 70 | F07 |
| DN200 | 8" | 64 | 343 | 298.5 | 198 | 208 | 145 | 22 | 22 | 102 | F10 |
| DN250 | 10" | 71 | 406 | 362.0 | 224 | 255 | 145 | 26 | 26 | 102 | F10 |
| DN300 | 12" | 81 | 483 | 431.8 | 259 | 275 | 145 | 26 | 26 | 102 | F10 |
| DN350 | 14" | 92 | - | 476.3 | 304 | 318 | 165 | 32 | 32 | 125 | F12 |
| DN400 | 16" | 102 | - | 539.8 | 325 | 340 | 165 | 32 | 32 | 125 | F12 |
| DN450 | 18" | 114 | - | 577.9 | 364 | 380 | 165 | 38 | 38 | 140 | F14 |
| DN500 | 20" | 127 | - | 635.0 | 394 | 420 | 165 | 38 | 38 | 140 | F14 |
| DN600 | 24" | 154 | - | 749.3 | 449 | 485 | 165 | 54 | 54 | 165 | F16 |
| DN750 | 30" | 167 | - | 914.0 | 490 | 510 | 200 | 54 | 54 | 165 | F16 |
| DN900 | 36" | 184 | - | 1086 | 545 | 580 | 200 | - | - | 254 | F25 |

Note: D3 is designed to meet ANSI 150 B16.5