



# WAFER BUTTERFLY VALVE

[www.spy-engineering.com](http://www.spy-engineering.com)



# WAFER BUTTERFLY VALVE

INDUSTRIAL VALVES

Cast Iron Valve

Fig. BFV100L - WAFER Cast Iron Body Lever Operated

BFV100G - WAFER Cast Iron Body Gear Operated

BFV100LS - WAFER Stainless Body Lever Operated

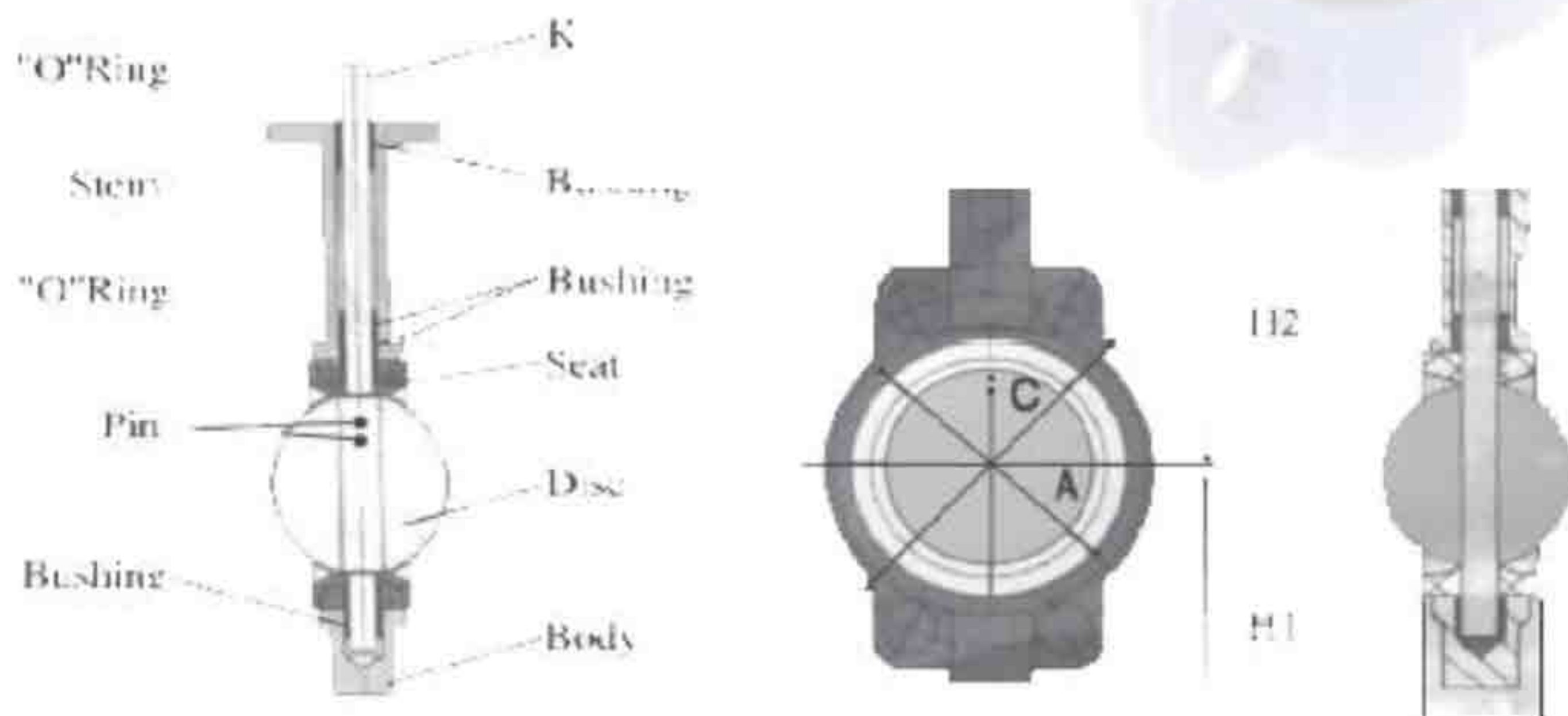
BFV100GS - WAFER Stainless Body Gear Operated

## RESILIENT SEAT BUTTERFLY VALVE

Butterfly valves design is apparent which utilize the phenolic - backed cartridge seat. These valves feature precision-machined parts insuring years of dependable operation. With many body/ trim combinations. The design can be suitable for BS/DIN/ANSI /JIS/UNI standard,etc. There are coating epoxy paint of 200 um.

## FEATURE

1. Small in size, light in weight. Easy installation maintenance. Simple and compact construction, quick 90 Degrees on off operation. Minimized operating torque, energy saving. Long service life. Bubbles - tight sealing with no leakage
3. under the pressure test. One piece shaft design ensures rigidity and stability of
4. the shaft or disc assembly and minimize disc stress. The operator top flange conforms to ISO5211 which
5. Electric or Pneumatic actuator that have ISO5211 Flange



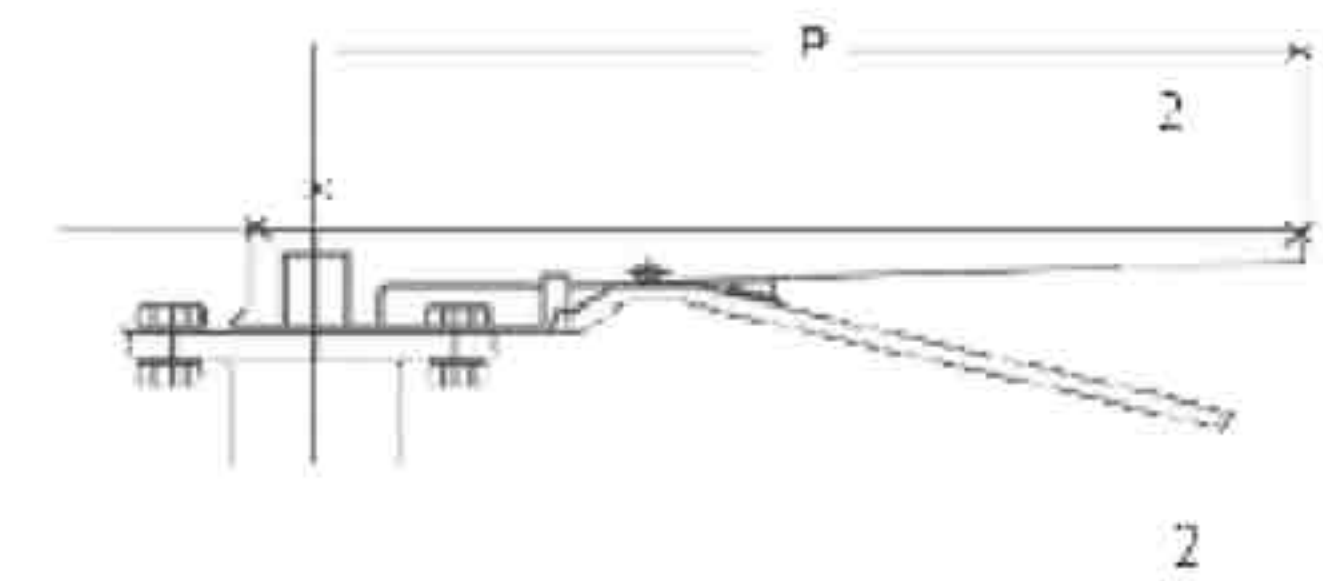
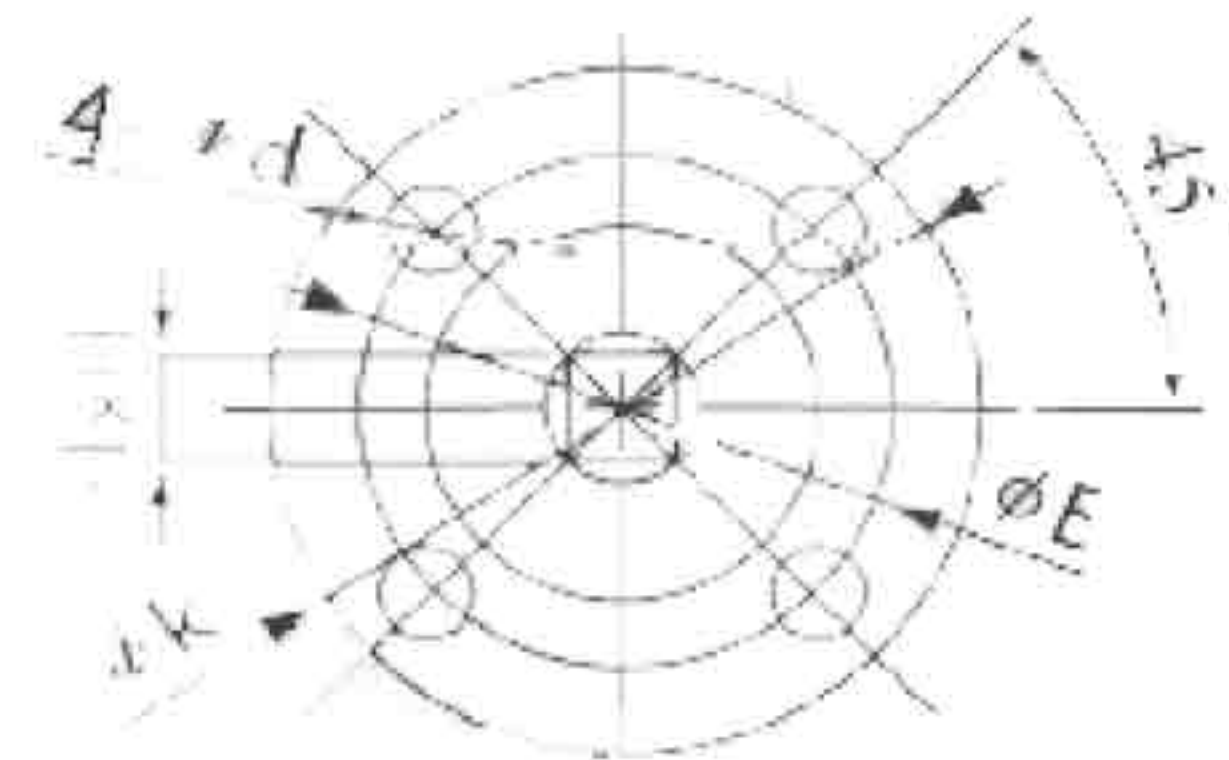
## MATERIALS

| PART NAME | STANDARD MATERIALS       | OPTIONAL MATERIALS             |
|-----------|--------------------------|--------------------------------|
| Body      | Cast Iron (A126 Class B) | Ductile Iron, WCB, SUS304, 316 |
| Disc      | SUS 304 (CF8)            | SUS 316 (CF8M)                 |
| Seat      | EPDM or Buna-N (NBR)     | PTFE, Viton, Neoprene          |
| Shaft     | Stainless Steel ASTM 410 | Stainless Steel ASTM 416C      |
| Pin       | SUS 316 (CF8M)           | Stainless Steel ASTM410, 416   |
| O-Ring    | EPDM or Buna-N (NBR)     | No optional                    |
| Bushing   | PTFE                     | Lubricated Bronze              |

## PERFORMANCE

| NOMINAL DIAMETER        | 2" – 12"<br>(50 – 300mm) | 14" – 40"<br>(350 – 1000mm) |
|-------------------------|--------------------------|-----------------------------|
|                         | Max.Working Pressure     | Max.Working Pressure        |
| Max.Working Temperature | NBR -10°C +80°C          | EPDM -10°C +120°C           |
|                         | EPDM -10°C +120°C        | PTFE -10°C +150°C           |
|                         | PTFE -10°C +150°C        |                             |
| Testing Pressure        | Body                     | 24 bar (348 psi.)           |
|                         | Seat                     | 17.6 bar (255 psi.)         |
|                         |                          | 15 bar (128 psi.)           |
|                         |                          | 11 bar (160 psi.)           |

ISO5211



## DIMENTIONS

Unit : mm

| DN(mm) | INCH   | L     | H1  | H2  | H3<br>L/G | B1 | ISO5211 | Ø E | Ø K | 4-Ød    | P    | C                    |
|--------|--------|-------|-----|-----|-----------|----|---------|-----|-----|---------|------|----------------------|
| 50     | 2"     | 42.0  | 80  | 140 | 30/32     | 11 | F07     | 70  | 90  | 4-19    | 266  |                      |
| 65     | 2.1/2" | 44.7  | 89  | 150 | 30/32     | 11 | F07     | 70  | 90  | 4-19    | 266  |                      |
| 80     | 3"     | 45.2  | 95  | 158 | 30/32     | 11 | F07     | 70  | 90  | 4-19    | 266  | This dimension       |
| 100    | 4"     | 52.0  | 114 | 176 | 30/32     | 11 | F07     | 70  | 90  | 4-19    | 266  | Can be acc to BS5115 |
| 125    | 5"     | 54.4  | 127 | 190 | 30/32     | 14 | F07     | 70  | 90  | 4-23    | 266  | ANSI 125/150         |
| 150    | 6"     | 55.8  | 139 | 211 | 30/32     | 14 | F07     | 70  | 90  | 4-23    | 266  | DIN PN10/PN16,       |
| 200    | 8"     | 60.6  | 175 | 235 | 40/45     | 17 | F10     | 102 | 125 | 4-23    | 355  | JIS10K,              |
| 250    | 10"    | 65.6  | 203 | 265 | -/45      | 22 | F10     | 102 | 125 | 4-25.4  | Gear | UNI Standard,etc.    |
| 300    | 12"    | 76.9  | 242 | 305 | -/45      | 22 | F10     | 102 | 125 | 4-25.4  | Gear |                      |
| 350    | 14"    | 76.5  | 267 | 368 | -/45      | 22 | F10     | 102 | 125 | 4-28.4  | Gear |                      |
| 400    | 16"    | 102.0 | 321 | 405 | -/52      | 27 | F14     | 140 | 175 | 4-28.4  | Gear |                      |
| 450    | 18"    | 114.0 | 328 | 422 | -/52      | 27 | F14     | 140 | 175 | 4-31.8  | Gear |                      |
| 500    | 20"    | 127.0 | 361 | 480 | -/65      | 36 | F14     | 140 | 175 | 4-31.8  | Gear |                      |
| 600    | 24"    | 152.0 | 459 | 562 | -/70      | 36 | F16     | 165 | 210 | 20-35.1 | Gear |                      |