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Rev.:Initial  
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## BUTTERFLY VALVE WITH WORM GEAR FN1-BV1W-3G



### APPLICATION

General Use: Water, sea water, gas,  
pressurized air, acids etc.

### CARACTERISTIQUES GENERALES

Resilient Seat Wafer Type Butterfly Valves  
Design according with BS EN593/API609  
Testing according with EN598. For Shell: 1.5 times Sealing: 1.1 times.  
Tightness in both ways. wafer type with smooth ears. Resilient seat  
adapted to the shape of the body assures low operating  
torque. Mounting flange according to ISO5211

### CONSTRUCTION

| NO. | PARTS       | MATERIAL                     |
|-----|-------------|------------------------------|
| 1   | BODY        | CI / DI                      |
| 2   | SEAT        | EPDM / NBR / VITON / SILICON |
| 3   | STEM        | SS416 / 316 / 304            |
| 4   | DISC        | DI / CF8 / CF8M              |
| 5   | PIN         | SS304 / 316                  |
| 6   | O-RING      | NBR / EPDM                   |
| 7   | BUSHING     | PTFE / BRONZE                |
| 8   | BOLT&NUT    | STAINLESS STEEL / GALVANIZED |
| 9   | FLAT WASHER | STAINLESS STEEL / GALVANIZED |
| 10  | BUSHING     | PTFE / BRONZE                |
| 11  | WORM GEAR   | DI                           |

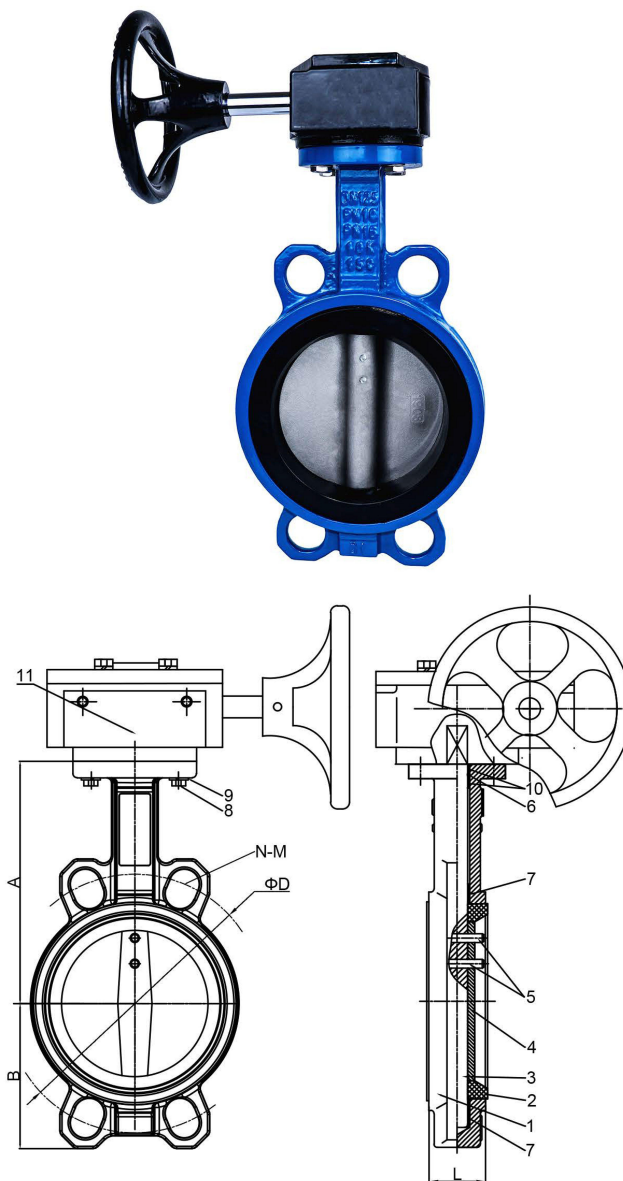
### DIMENSIONS

| DN  |      | A   |     |    | PN10 |    |     | PN16 |    |     | ANSI 150 |    |     |
|-----|------|-----|-----|----|------|----|-----|------|----|-----|----------|----|-----|
| mm  | inch |     |     | L  | ΦD   | N  | M   | ΦD   | N  | M   | ΦD       | N  | M   |
| 50  | 2"   | 161 | 80  | 43 | 125  | 4  | Φ18 | 125  | 4  | Φ18 | 120.5    | 4  | Φ19 |
| 65  | 2.5" | 175 | 89  | 46 | 145  | 4  | Φ18 | 145  | 4  | Φ18 | 139.5    | 4  | Φ19 |
| 80  | 3"   | 181 | 95  | 46 | 160  | 8  | Φ18 | 160  | 8  | Φ18 | 152.5    | 4  | Φ19 |
| 100 | 4"   | 200 | 114 | 52 | 180  | 8  | Φ18 | 180  | 8  | Φ18 | 190.5    | 8  | Φ19 |
| 125 | 5"   | 213 | 127 | 56 | 210  | 8  | Φ18 | 210  | 8  | Φ18 | 216      | 8  | Φ22 |
| 150 | 6"   | 226 | 139 | 56 | 240  | 8  | Φ22 | 240  | 8  | Φ22 | 241.5    | 8  | Φ22 |
| 200 | 8"   | 260 | 175 | 60 | 295  | 8  | Φ22 | 295  | 12 | Φ22 | 298.5    | 8  | Φ22 |
| 250 | 10"  | 292 | 203 | 68 | 350  | 12 | Φ22 | 355  | 12 | Φ26 | 362      | 12 | Φ25 |
| 300 | 12"  | 337 | 242 | 78 | 400  | 12 | Φ22 | 410  | 12 | Φ26 | 432      | 12 | Φ25 |

### WORKING CONDITIONS

Maximum Working Pressure: 16 bar.  
Maximum Working Temperature table

| Sleeve type<br>in option | Maximum<br>Temperature | Peak<br>Temperature |
|--------------------------|------------------------|---------------------|
| EPDM                     | +4°C ~ +110°C          | -20°C ~ +130°C      |
| EPDM Blanc               | +4°C ~ +110°C          | -20°C ~ +130°C      |
| CSM (Type Hypaion)       | +4°C ~ +80°C           | -20°C ~ +110°C      |
| FPM (Type Viton)         | -10°C ~ +170°C         | -20°C ~ +200°C      |
| Silicone                 | -20°C ~ +170°C         | -40°C ~ +200°C      |
| Nitrile (NBR)            | -10°C ~ +80°C          | -20°C ~ +90°C       |



### STANDARDS

Manufacture according to the requirements of the European directive  
2014/68/EU, modulate H Face to face according to standards NF EN558  
SERIE 20, ISO5752, DIN3202.  
Mounting between flanges UNI EN1092: PN10/16, ANSI150, JIS 5K/10K, BS  
10, TABLE E etc.  
Body: 24 bar  
Seat: 17.6 bar

Tianjin Fortis Valve Co., Ltd.  
Fortis Valve-Guazigou Industrial Zone, Xiaozhan Town, Jin nan  
District, Tianjin of China.  
Tel: +86-22-88529757  
Email: info@fortisvalves.com  
Fax: +86-22-88818118  
Web: www.fortisvalves.com

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FTV  
Since 2000

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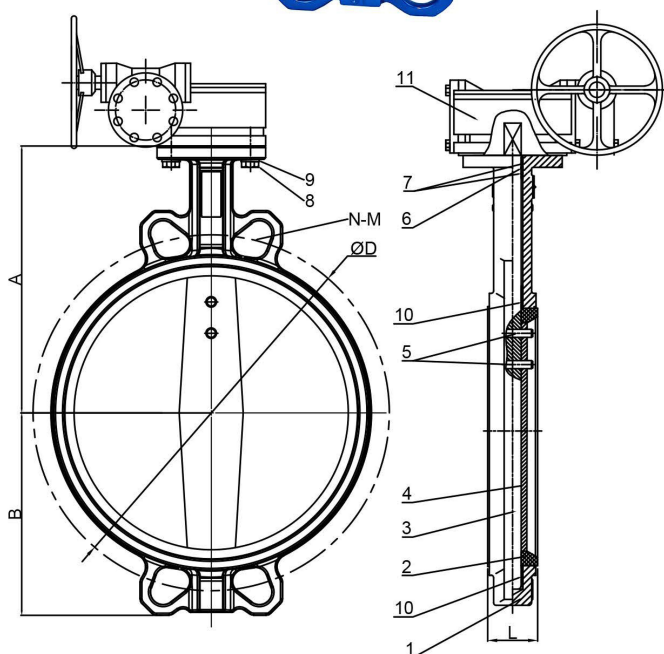
### DIMENSIONS

| DN  | mm  | inch | A   | B   | L   | PN10 |     |     | PN16 |     |       | ANSI 150 |     |   |
|-----|-----|------|-----|-----|-----|------|-----|-----|------|-----|-------|----------|-----|---|
|     |     |      |     |     |     | ΦD   | N   | M   | ΦD   | N   | M     | ΦD       | N   | M |
| 350 | 14" | 368  | 267 | 78  | 460 | 16   | Φ22 | 470 | 16   | Φ26 | 476   | 12       | Φ29 |   |
| 400 | 16" | 400  | 297 | 102 | 515 | 16   | Φ26 | 525 | 16   | Φ30 | 539.5 | 16       | Φ29 |   |
| 450 | 18" | 422  | 315 | 114 | 565 | 20   | Φ26 | 585 | 20   | Φ30 | 578   | 16       | Φ32 |   |
| 500 | 20" | 480  | 348 | 127 | 620 | 20   | Φ26 | 650 | 20   | Φ33 | 635   | 20       | Φ32 |   |
| 600 | 24" | 562  | 444 | 154 | 725 | 20   | Φ30 | 770 | 20   | Φ36 | 749.5 | 20       | Φ35 |   |

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