# GGG40 GGG50 Wras Ductile Iron Double Eccentric Butterfly Valve With PN10 PN16 PN20 PN25

Our Product Introduction

## Basic Information

- Place of Origin: CHINA
- Brand Name: DEYE
- Certification: ISO9001:2015 PED
- Model Number: DY-BFV-1001
- Minimum Order Quantity: 10PCS
- Price: USD2-USD20000 each
- Packaging Details: carton box+ ply wooden cases or carton+ Pallets
- Delivery Time: 20 days for usual order, 7 days for stocked items
- Payment Terms: T/T, L/C, D/P
- Supply Ability: 1000pcs one month

## Product Specification

- Design Standard: API609 BS5155 AWWA C504
- Face To Face: EN558 Series 14, EN558 Series 13, ISO5752-13. ISO5752-14, AWWAC504
- Material: GGG40 GGG50 WCB STAINLESS STEEL
- Seal: Replaceable EPDM, NBR, PTFE, VITON
- Pressure: PN6, PN10, PN16, PN20, PN25, 125PSI, 150PSI, 225PSI , CL150LBS
- Test Standard: API598 EN12226-1
- Highlight: **GGG50 Double Eccentric Butterfly Valve**, **GGG40 Double Eccentric Butterfly Valve**, **PN10 eccentric butterfly valve**


## More Images


## Product Description

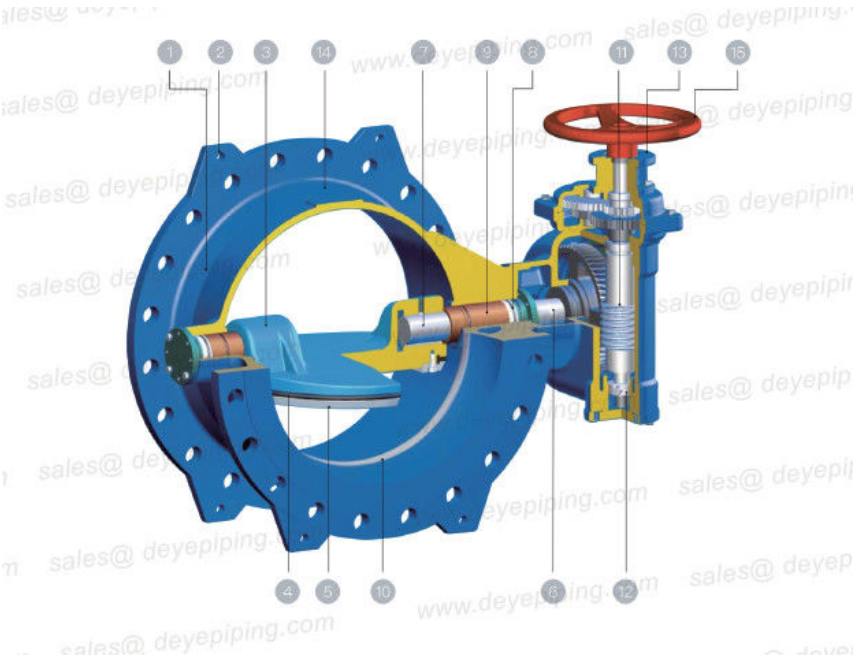
Series No. BFV-1001

Double Eccentric flanged butterfly valves, the axis of the valve stem deviates from the center of the butterfly plate and the center of the body. The effect of double eccentricity enables the butterfly plate to quickly detach from the seat after the valve is opened, which greatly eliminates unnecessary excessive squeezing and scraping between the butterfly plate and the valve seat, reduces the opening resistance, reduces wear and improve Seat life.

**Quick Detail**
Design standard: API 609. /BS5155
Face to face: EN558 Series 13/14, ISO5752 Series 13/14, AWWAC504
Bi-direction Seal,
Renewable seat Design
Mode of operation: Gearbox.
Test and inspection: API 598. EN1226

**Product Range**
Available Body Material: Ductile Iron , Carbon steel, Stainless steel, Alloy steel.
Available Body Seat Ring: SS304, SS316, STL, Duplex SS 2205/2507, Bronze
Optional Disc Seat Ring: EPDM, NBR, PTFE, Teflon. Neoprene
Optional End connection: Wafer, Lug, Flanged.
Face to face: EN558 Series 13/14, long type or short type
Normal diameter: 4"~96" (DN100~DN2400).
Pressure range: 150PSI/225PSI (PN10, PN16, PN25).
Available Operation: Gearbox, Electric, pneumatic actuator
Working temperature: -46 ~+200 .

**Construction of Double Eccentric Butterfly valves**



## Design features

1. **Body**
   Streamline design and smooth finish of the body provides minimum resistance to flow.
2. **Lifting holes and feet**
   Integral lifting holes provide easy installation and feet ensure strong ground support.
3. **Disc**
   Streamlined and low profiled disc including closed hubs ensuring higher kv values. Double offset disc design reduces seal wear and torque.
4. **Sealing system**
   Sealing on seat face is ensured by an endless T profile resilient sealing ring which is held on the periphery of the disc by a retaining ring. In closed position the sealing ring is pressed against the conically shaped seat face of the body and provides safe sealing in either direction of flow. In opened position the sealing ring is completely unstressed due to the double eccentric disc design.

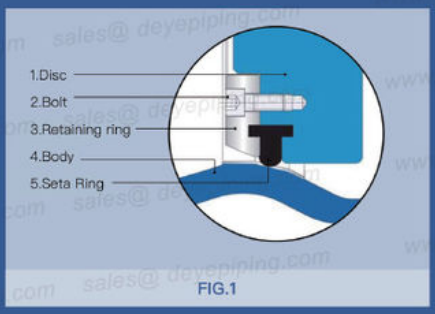


FIG.1

5. **Retaining ring**
   The one piece retaining ring prevents sealing ring from rolling out. Sealing ring can be replaced easily at site without dismantling the valve disc and without requirement of any special tool.
6. **Shafts**
   Stub shaft design provides minimal restriction to flow.
7. **Shaft connection**
   Positive disc to shaft connection by use of key.
8. **Shaft sealing**
   Multiple O–ring shaft sealing system ensures maintenance free sealing for life span.
9. **Bearing system**
   Self lubricating plain bearings reduce shaft friction and operating torque. These bearings keep the shaft centralised and prevent axial movement.
10. **Body seat**
    Stainless steel weld filled and finished integral body seat ensures a corrosion and erosion resistant seat face.
11. **Worm gear operators**
    Are designed for easy operating of butterfly valve by only one operator.
12. **Travelling nut**
    Bottom end of the worm shaft is threaded and a travelling nut moves up and down on this threaded spindle. When operating the gear (valve) in "open" or "close" direction, the travelling nut also moves towards the corresponding end stop and prevents the over travel of the valve disc.
13. **Top flange**
    All butterfly valves are equipped with ISO top flanges for all types of actuator– operator connections.
14. **Unique tracking number**
    Every valve is equipped with a cast tracking number for easy traceability and identification.
15. **Handwheel**
    Every valve is equipped with a handwheel (standard version). In combination with the gearbox, the valve is designed for one man operation.
    Other accessories for operation i.e. electric actuator or head stock on request.



**Dimension List of the double offset butterfly valve**

## Technical Specifications

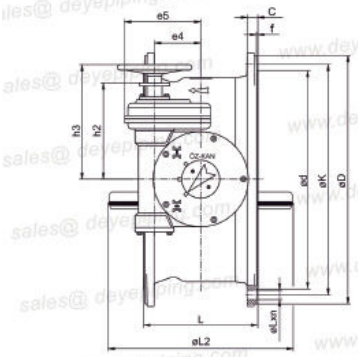



FIG.3

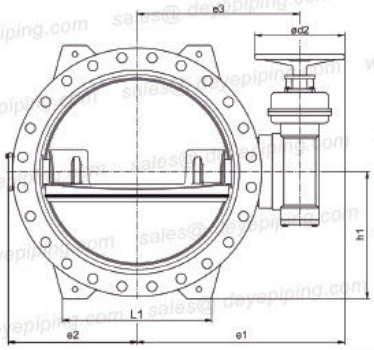



FIG.4

### TABLE 2 PN10

| DN | PN | L Series 14 | L Series 13 | L1 | L2 | e1 | e2 | e3 | e4 | e5 | d2 | h1 | h2 | h3 | WEIGHT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 150 | 10 | 210 | 140 | – | 152 | 378 | 151 | 255 | 71 | 134 | 245 | 143 | 136 | 212 | 212 |
| 200 | 10 | 230 | 152 | 180 | 199 | 405 | 177 | 282 | 71 | 134 | 245 | 180 | 136 | 212 | 212 |
| 250 | 10 | 250 | 165 | 220 | 251 | 481 | 214 | 352 | 95 | 158 | 245 | 213 | 163 | 239 | 239 |
| 300 | 10 | 270 | 178 | 280 | 281 | 503 | 237 | 380 | 95 | 158 | 245 | 242 | 163 | 239 | 239 |
| 350 | 10 | 290 | 190 | 320 | 336 | 595 | 283 | 410 | 110 | 175 | 370 | 264 | 184 | 271 | 271 |
| 375 | 10 | 310 | 216 | 335 | 385 | 626 | 297 | 441 | 110 | 175 | 370 | 293 | 184 | 271 | 271 |
| 400 | 10 | 310 | 216 | 335 | 385 | 626 | 297 | 441 | 110 | 175 | 370 | 293 | 184 | 271 | 271 |
| 450 | 10 | 330 | 222 | 380 | 434 | 670 | 333 | 485 | 110 | 198 | 370 | 320 | 285 | 372 | 372 |
| 500 | 10 | 350 | 229 | 400 | 474 | 701 | 344 | 516 | 156 | 245 | 370 | 345 | 334 | 420 | 420 |
| 600 | 10 | 390 | 267 | 440 | 576 | 749 | 414 | 564 | 156 | 245 | 370 | 400 | 334 | 420 | 420 |
| 700 | 10 | 430 | 292 | 540 | 671 | 838 | 511 | 653 | 190 | 313 | 370 | 460 | 397 | 484 | 484 |
| 750 | 10 | 450 | 305 | 580 | 710 | 882 | 542 | 697 | 190 | 313 | 370 | 496 | 397 | 484 | 484 |
| 800 | 10 | 470 | 318 | 610 | 766 | 855 | 530 | 670 | 190 | 313 | 370 | 520 | 397 | 484 | 484 |
| 900 | 10 | 510 | 330 | 670 | 861 | 965 | 618 | 780 | 242 | 365 | 370 | 568 | 432 | 519 | 519 |
| 1000 | 10 | 550 | 410 | 740 | 951 | 1039 | 650 | 854 | 242 | 365 | 370 | 625 | 432 | 519 | 519 |
| 1100 | 10 | 590 | 440 | 750 | 1053 | 1022 | 720 | 837 | 242 | 365 | 370 | 695 | 432 | 519 | 519 |
| 1200 | 10 | 630 | 470 | 900 | 1147 | 1251 | 782 | 1008 | 290 | 515 | 485 | 738 | 538 | 625 | 625 |
| 1300 | 10 | 670 | – | 988 | 1248 | 1301 | 867 | 1059 | 290 | 515 | 485 | 803 | 538 | 625 | 625 |
| 1400 | 10 | 710 | 530 | 1160 | 1345 | 1349 | 917 | 1101 | 290 | 515 | 485 | 848 | 538 | 625 | 625 |
| 1500 | 10 | 750 | – | 1080 | 1435 | 1411 | 1015 | 1168 | 431 | 656 | 485 | 910 | 681 | 768 | 768 |
| 1600 | 10 | 790 | 600 | 1250 | 1537 | 1483 | 1060 | 1240 | 431 | 656 | 485 | 970 | 681 | 768 | 768 |
| 1800 | 10 | 870 | 670 | 1220 | 1722 | 1586 | 1183 | 1343 | 431 | 656 | 485 | 1075 | 681 | 768 | 768 |
| 2000 | 10 | 950 | 760 | 1300 | 1901 | 1769 | 1303 | 1526 | 431 | 656 | 485 | 1183 | 681 | 768 | 768 |
| 2200 | 10 | 1030 | – | 1500 | 2085 | 1906 | 1420 | 1603 | 431 | 656 | 605 | 1285 | 809 | 909 | 909 |
| 2400 | 10 | 1110 | – | 1600 | 2308 | 2095 | 1593 | 1792 | 519 | 744 | 605 | 1390 | 898 | 998 | 998 |
| 2500 | 10 | 1150 | – | 1600 | 2396 | 2122 | 1610 | 1819 | 519 | 744 | 605 | 1440 | 898 | 998 | 998 |

Note: Dimensions C, f and øLxn depend on flange specification ordered

TABLE 3 PN16

| DN | PN | L Series 14 | L Series 13 | L1 | L2 | e1 | e2 | e3 | e4 | e5 | d2 | h1 | h2 | h3 | WEIGHT (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 150 | 16 | 210 | 140 | – | 152 | 378 | 151 | 255 | 71 | 134 | 245 | 143 | 136 | 212 | 45 |
| 200 | 16 | 230 | 152 | 180 | 199 | 405 | 177 | 282 | 71 | 134 | 245 | 180 | 136 | 212 | 60 |
| 250 | 16 | 250 | 165 | 220 | 251 | 481 | 214 | 352 | 95 | 158 | 245 | 213 | 163 | 239 | 95 |
| 300 | 16 | 270 | 178 | 280 | 281 | 503 | 237 | 380 | 95 | 158 | 245 | 242 | 163 | 239 | 115 |
| 350 | 16 | 290 | 190 | 320 | 336 | 595 | 283 | 410 | 110 | 175 | 370 | 272 | 184 | 271 | 162 |
| 375 | 16 | 310 | 216 | 335 | 385 | 626 | 297 | 441 | 110 | 198 | 370 | 300 | 285 | 372 | 204 |
| 400 | 16 | 310 | 216 | 335 | 385 | 626 | 297 | 441 | 110 | 198 | 370 | 300 | 285 | 372 | 204 |
| 450 | 16 | 330 | 222 | 380 | 434 | 670 | 333 | 485 | 110 | 198 | 370 | 330 | 285 | 372 | 240 |
| 500 | 16 | 350 | 229 | 400 | 474 | 721 | 344 | 531 | 156 | 245 | 370 | 370 | 334 | 420 | 325 |
| 600 | 16 | 390 | 267 | 500 | 576 | 779 | 414 | 594 | 156 | 245 | 370 | 432 | 334 | 420 | 435 |
| 700 | 16 | 430 | 292 | 540 | 671 | 838 | 511 | 653 | 190 | 313 | 370 | 467 | 397 | 484 | 610 |
| 750 | 16 | 450 | 305 | 580 | 710 | 882 | 542 | 697 | 190 | 313 | 370 | 496 | 397 | 484 | 707 |
| 800 | 16 | 470 | 318 | 615 | 766 | 928 | 530 | 743 | 190 | 313 | 370 | 525 | 397 | 484 | 780 |
| 900 | 16 | 510 | 330 | 675 | 861 | 1007 | 618 | 802 | 242 | 365 | 370 | 573 | 432 | 519 | 1065 |
| 1000 | 16 | 550 | 410 | 740 | 951 | 1039 | 650 | 854 | 242 | 365 | 370 | 638 | 432 | 519 | 1320 |
| 1100 | 16 | 590 | 440 | 750 | 1053 | 1091 | 720 | 906 | 242 | 365 | 370 | 696 | 432 | 519 | 1558 |
| 1200 | 16 | 630 | 470 | 900 | 1147 | 1251 | 782 | 1008 | 290 | 515 | 485 | 753 | 538 | 625 | 2375 |
| 1300 | 16 | 670 | – | 988 | 1248 | 1301 | 867 | 1059 | 290 | 515 | 485 | 803 | 538 | 625 | 2867 |
| 1400 | 16 | 710 | 530 | 1160 | 1345 | 1349 | 917 | 1101 | 290 | 515 | 485 | 848 | 538 | 625 | 2870 |
| 1500 | 16 | 750 | – | 1153 | 1435 | 1385 | 986 | 1142 | 431 | 656 | 485 | 930 | 681 | 768 | 4055 |
| 1600 | 16 | 790 | 600 | 1250 | 1537 | 1508 | 1115 | 1265 | 431 | 656 | 485 | 975 | 681 | 768 | 5150 |
| 1800 | 16 | 870 | 670 | 1220 | 1722 | 1630 | 1217 | 1387 | 431 | 656 | 485 | 1080 | 681 | 768 | 5580 |
| 2000 | 16 | 950 | 760 | 1300 | 1901 | 1769 | 1303 | 1526 | 431 | 656 | 485 | 1193 | 681 | 768 | 8500 |
| 2200 | 16 | 1030 | – | 1500 | 2085 | 1975 | 1460 | 1672 | 519 | 744 | 605 | 1290 | 898 | 998 | 11220 |
| 2400 | 16 | 1110 | – | 1630 | 2308 | 2095 | 1593 | 1792 | 519 | 744 | 605 | 1390 | 898 | 998 | 14650 |
| 2500 | 16 | 1150 | – | 1650 | 2396 | 2122 | 1610 | 1819 | 519 | 744 | 605 | 1440 | 898 | 998 | 16040 |

TABLE 4 PN25

| DN | PN | L Series 14 | L Series 13 | L1 | L2 | e1 | e2 | e3 | e4 | e5 | d2 | h1 | h2 | h3 | WEIGHT (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 150 | 25 | 210 | 140 | – | 152 | 378 | 151 | 255 | 71 | 134 | 245 | 150 | 136 | 212 | 55 |
| 200 | 25 | 230 | 152 | 200 | 199 | 462 | 199 | 339 | 95 | 158 | 245 | 190 | 163 | 239 | 110 |
| 250 | 25 | 250 | 165 | 305 | 251 | 556 | 250 | 371 | 110 | 175 | 370 | 223 | 184 | 271 | 160 |
| 300 | 25 | 270 | 178 | 340 | 281 | 591 | 277 | 406 | 110 | 198 | 370 | 253 | 285 | 372 | 185 |
| 350 | 25 | 290 | 190 | 320 | 336 | 619 | 294 | 434 | 110 | 198 | 370 | 288 | 285 | 372 | 216 |
| 375 | 25 | 310 | 216 | 375 | 379 | 663 | 342 | 478 | 156 | 245 | 370 | 320 | 334 | 420 | 295 |
| 400 | 25 | 310 | 216 | 375 | 379 | 663 | 342 | 478 | 156 | 245 | 370 | 320 | 334 | 420 | 295 |
| 450 | 25 | 330 | 222 | 470 | 427 | 709 | 382 | 524 | 156 | 245 | 370 | 345 | 334 | 420 | 352 |
| 500 | 25 | 350 | 229 | 430 | 474 | 745 | 410 | 560 | 190 | 313 | 370 | 375 | 397 | 484 | 475 |
| 600 | 25 | 390 | 267 | 530 | 567 | 798 | 461 | 611 | 190 | 313 | 370 | 433 | 397 | 484 | 655 |
| 700 | 25 | 430 | 292 | 640 | 663 | 877 | 535 | 682 | 242 | 365 | 370 | 490 | 432 | 519 | 900 |
| 750 | 25 | 450 | 305 | 600 | 710 | 907 | 542 | 722 | 242 | 365 | 370 | 526 | 432 | 519 | 960 |
| 800 | 25 | 470 | 318 | 575 | 747 | 974 | 590 | 789 | 242 | 365 | 370 | 560 | 432 | 519 | 1184 |
| 900 | 25 | 510 | 330 | 745 | 854 | 1114 | 685 | 871 | 290 | 515 | 485 | 610 | 538 | 625 | 1800 |
| 1000 | 25 | 550 | 410 | 760 | 952 | 1171 | 741 | 928 | 290 | 515 | 485 | 675 | 538 | 625 | 2120 |
| 1200 | 25 | 630 | 470 | 880 | 1148 | 1286 | 824 | 1043 | 290 | 515 | 485 | 775 | 538 | 625 | 2780 |
| 1400 | 25 | 710 | 530 | 1010 | 1345 | 1476 | 964 | 1233 | 431 | 656 | 485 | 888 | 681 | 768 | 4210 |
| 1600 | 25 | 790 | 600 | 1210 | 1543 | 1603 | 1110 | 1300 | 431 | 656 | 605 | 1000 | 809 | 909 | 5640 |
| 1800 | 25 | 870 | 670 | 1345 | 1678 | 1833 | 1255 | 1530 | 519 | 744 | 605 | 1118 | 898 | 998 | 9100 |
| 2000 | 25 | 950 | 760 | 1400 | 1886 | 1886 | 1353 | 1583 | 519 | 744 | 605 | 1228 | 898 | 998 | 11560 |



**Application:**
The double eccentric butterfly valve uses an eccentric structure design, which is widely used in the fluid piping system of water supply and drainage, sewage, portable water, drinking water, construction, textile, papermaking, hydropower, metallurgy, energy and other projects for regulation and interception.

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