

# Cast steel three-eccentric hard sealing butterfly valve



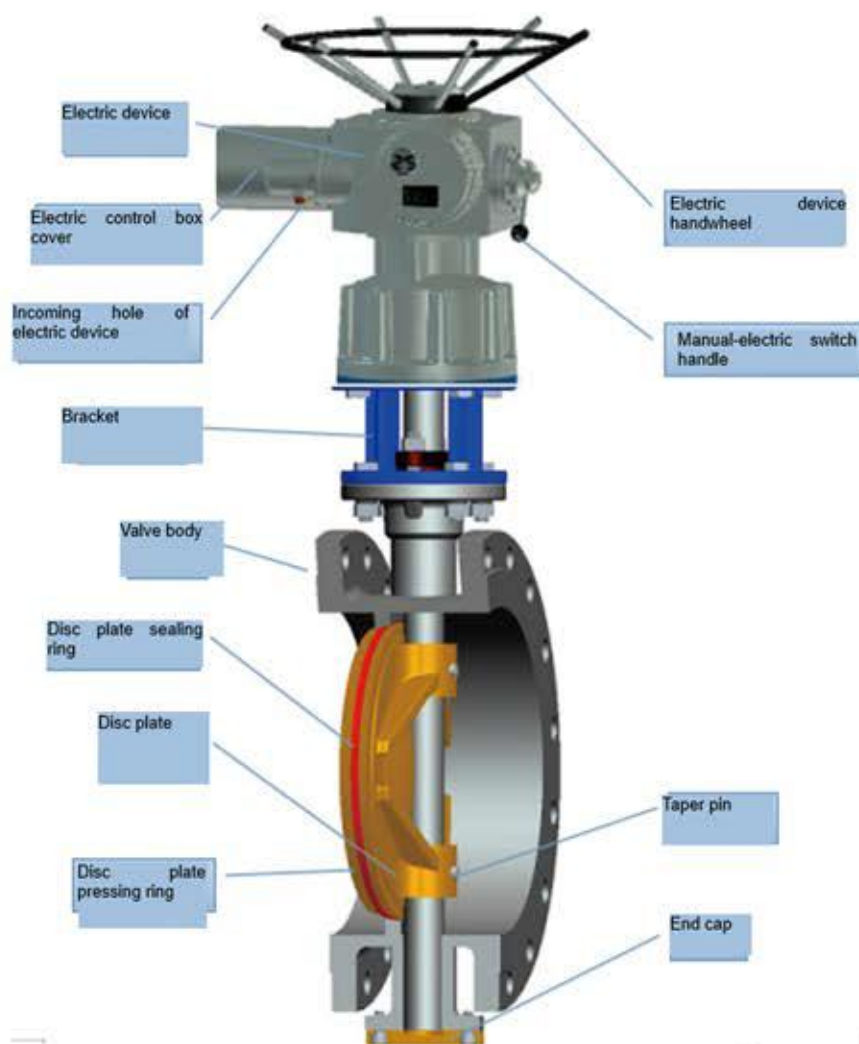
## PRODUCT OVERVIEW

|                        |                                                                                                                                                            |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Body material:         | WCB                                                                                                                                                        |
| Size range:            | DN50 ~ 2000                                                                                                                                                |
| Pressure rating:       | 0.6 ~ 2.5MPa                                                                                                                                               |
| Operating temperature: | -29 ~ 425°C                                                                                                                                                |
| End connection:        | Flanged                                                                                                                                                    |
| Applicable medium:     | Water, Sewage, Steam, Oil                                                                                                                                  |
| Mode of operation:     | Manual, Electric                                                                                                                                           |
| Applicable industry:   | Chemical & Petrochemical, Oil & Gas,<br>Mining & Minerals, Power generation,<br>Water & Water Treatment, Pulp & Paper,<br>Municipal, Heating & Ventilation |
| Design & Manufacture:  | API, ASME, ASTM, ANSI, BS, DIN, JIS, ISO, GB                                                                                                               |

## DESIGN FEATURES

1. The valve utilizes triple eccentric structure, and has reliable sealing performance, the performance of sealing will be improved when the valve is firmly closed.
2. The disc plate sealing ring is made by pressing multi-layer board combined with flexible graphite and stainless steel plate, which is resistant to medium corrosion, erosion and maintenance-free, and has a long service life.
3. The sealing surface of the valve body is processed with surfacing stainless steel material technology, which is resistant to medium corrosion, erosion and maintenance-free, and has a long service life.
4. The disc plate has high strength, large flow area and low flow resistance.
5. The valve shaft is sealed with flexible graphite packing. The higher the medium pressure, the better the sealing. After the packing is worn out, it can be compensated by pressing the packing gland.



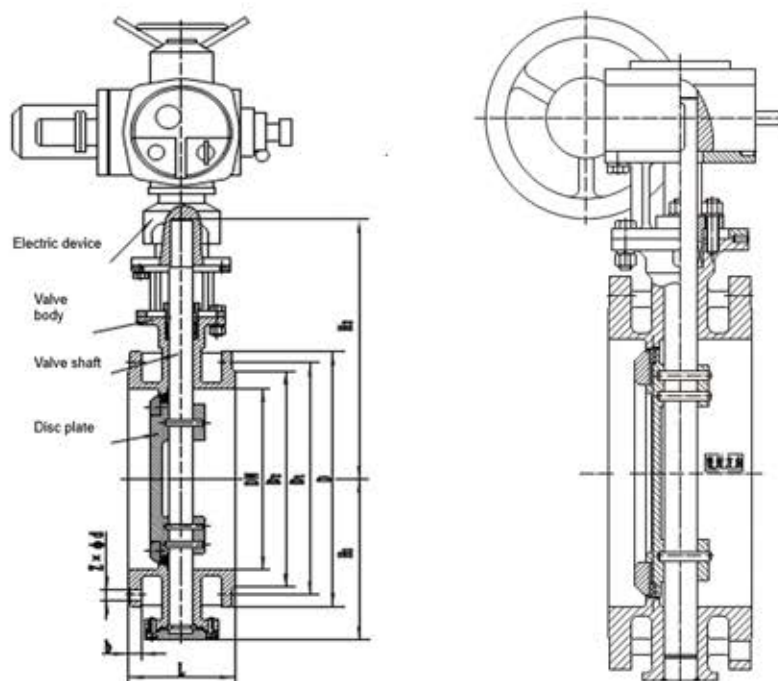


## VALVE MATERIAL LIST

| Part name                           | Material              |
|-------------------------------------|-----------------------|
| Valve body, bracket, packing gland  | WCB                   |
| Valve shaft                         | Stainless steel 2Cr13 |
| End cover, disc plate pressing ring | Q235                  |
| Disc plate sealing ring             | 430+XB450             |
| Disc plate                          | Q235/WCB              |
| Packing                             | Flexible graphite     |



## TECHNICAL SPECIFICATIONS



| Model    | DN<br>(mm) | Size(mm) |     |                |      |                |                |      |        |
|----------|------------|----------|-----|----------------|------|----------------|----------------|------|--------|
|          |            | L        | H   | H <sub>1</sub> | D    | D <sub>1</sub> | D <sub>2</sub> | b-f  | z-φd   |
| D943H-6C | 200        | 152      | 182 | 350            | 320  | 280            | 254            | 24-2 | 8-φ18  |
|          | 250        | 165      | 217 | 393            | 375  | 335            | 309            | 26-2 | 12-φ18 |
|          | 300        | 178      | 245 | 441            | 440  | 395            | 363            | 26-2 | 12-φ22 |
|          | 350        | 190      | 275 | 497            | 490  | 445            | 413            | 26-2 | 12-φ22 |
|          | 400        | 216      | 360 | 585            | 540  | 495            | 463            | 26-2 | 16-φ22 |
|          | 450        | 222      | 389 | 603            | 595  | 550            | 518            | 28-2 | 16-φ22 |
|          | 500        | 229      | 428 | 652            | 645  | 600            | 568            | 28-2 | 20-φ22 |
|          | 600        | 267      | 507 | 738            | 755  | 705            | 667            | 34-2 | 20-φ26 |
|          | 700        | 292      | 544 | 793            | 860  | 810            | 772            | 34-5 | 24-φ26 |
|          | 800        | 318      | 602 | 867            | 975  | 920            | 878            | 36-5 | 24-φ30 |
|          | 900        | 330      | 632 | 867            | 1075 | 1020           | 978            | 38-5 | 24-φ30 |
|          | 1000       | 410      | 698 | 951            | 1075 | 1120           | 1078           | 26-5 | 28-φ30 |

| Model     | DN<br>(mm) | Size(mm) |      |                |      |                |                |      |         |
|-----------|------------|----------|------|----------------|------|----------------|----------------|------|---------|
|           |            | L        | H    | H <sub>1</sub> | D    | D <sub>1</sub> | D <sub>2</sub> | b-f  | z-φ d   |
| D943H-10C | 50         | 108      | 83   | 236            | 165  | 125            | 99             | 20-2 | 4-φ 18  |
|           | 65         | 112      | 93   | 246            | 185  | 145            | 118            | 20-2 | 8-φ 18  |
|           | 80         | 114      | 100  | 257            | 200  | 160            | 132            | 20-2 | 8-φ 18  |
|           | 100        | 127      | 110  | 261            | 220  | 180            | 156            | 22-2 | 8-φ 18  |
|           | 125        | 140      | 125  | 303            | 250  | 210            | 184            | 22-2 | 8-φ 18  |
|           | 150        | 140      | 155  | 265            | 285  | 240            | 211            | 24-2 | 8-φ 22  |
|           | 200        | 152      | 182  | 355            | 340  | 295            | 266            | 24-2 | 8-φ 22  |
|           | 250        | 165      | 217  | 393            | 395  | 350            | 319            | 26-2 | 12-φ 22 |
|           | 300        | 178      | 245  | 441            | 445  | 400            | 370            | 26-2 | 12-φ 22 |
|           | 350        | 190      | 275  | 497            | 505  | 460            | 429            | 26-2 | 16-φ 22 |
|           | 400        | 216      | 355  | 547            | 565  | 515            | 480            | 26-2 | 16-φ 26 |
|           | 450        | 222      | 386  | 573            | 615  | 565            | 530            | 28-2 | 20-φ 26 |
|           | 500        | 229      | 423  | 609            | 670  | 620            | 582            | 28-2 | 20-φ 26 |
|           | 600        | 267      | 499  | 706            | 780  | 725            | 682            | 34-2 | 20-φ 30 |
|           | 700        | 292      | 536  | 752            | 895  | 840            | 794            | 34-5 | 24-φ 30 |
|           | 800        | 318      | 619  | 855            | 1015 | 950            | 901            | 36-5 | 24-φ 33 |
|           | 900        | 330      | 624  | 885            | 1115 | 1050           | 1001           | 38-5 | 28-φ 33 |
|           | 1000       | 410      | 693  | 948            | 1230 | 1160           | 1112           | 38-5 | 28-φ 36 |
|           | 1200       | 470      | 800  | 1163           | 1455 | 1380           | 1328           | 44-5 | 32-φ 39 |
|           | 1400       | 530      | 910  | 1303           | 1675 | 1590           | 1530           | 48-5 | 36-φ 42 |
|           | 1600       | 600      | 1047 | 1433           | 1915 | 1820           | 1750           | 52-5 | 40-φ 48 |
|           | 1800       | 670      | 1152 | 1570           | 2115 | 2020           | 1950           | 50-5 | 44-φ 48 |
|           | 2000       | 760      | 1275 | 1710           | 2325 | 2230           | 2150           | 54-5 | 48-φ 48 |

| Model     | DN<br>(mm) | Size(mm) |      |                |      |                |                |      |          |
|-----------|------------|----------|------|----------------|------|----------------|----------------|------|----------|
|           |            | L        | H    | H <sub>1</sub> | D    | D <sub>1</sub> | D <sub>2</sub> | b-f  | z* φ d   |
| D943H-16C | 50         | 108      | 83   | 236            | 165  | 125            | 99             | 20-2 | 4- φ 18  |
|           | 65         | 112      | 93   | 246            | 185  | 145            | 118            | 20-2 | 8- φ 18  |
|           | 80         | 114      | 100  | 257            | 200  | 160            | 132            | 20-2 | 8- φ 18  |
|           | 100        | 127      | 110  | 261            | 220  | 180            | 156            | 22-2 | 8- φ 18  |
|           | 125        | 140      | 114  | 303            | 250  | 210            | 184            | 22-2 | 8- φ 18  |
|           | 150        | 140      | 155  | 313            | 285  | 240            | 211            | 24-2 | 8- φ 22  |
|           | 200        | 152      | 182  | 355            | 340  | 295            | 266            | 24-2 | 12- φ 22 |
|           | 250        | 165      | 217  | 393            | 405  | 355            | 319            | 26-2 | 12- φ 26 |
|           | 300        | 178      | 245  | 441            | 460  | 410            | 370            | 28-2 | 12- φ 26 |
|           | 350        | 190      | 275  | 497            | 520  | 470            | 429            | 30-2 | 16- φ 26 |
|           | 400        | 216      | 360  | 547            | 580  | 525            | 480            | 32-2 | 16- φ 30 |
|           | 450        | 222      | 386  | 573            | 640  | 585            | 548            | 34-4 | 20- φ 30 |
|           | 500        | 229      | 423  | 609            | 715  | 650            | 609            | 36-4 | 20- φ 33 |
|           | 600        | 267      | 499  | 706            | 840  | 770            | 720            | 38-5 | 20- φ 36 |
|           | 700        | 292      | 536  | 752            | 910  | 840            | 794            | 40-5 | 24- φ 36 |
|           | 800        | 318      | 619  | 855            | 1025 | 950            | 901            | 42-5 | 24- φ 39 |
|           | 900        | 330      | 662  | 919            | 1125 | 1050           | 1001           | 44-5 | 28- φ 39 |
|           | 1000       | 410      | 728  | 985            | 1255 | 1170           | 1112           | 46-5 | 28- φ 42 |
|           | 1200       | 470      | 800  | 1163           | 1485 | 1390           | 1328           | 52-5 | 32- φ 48 |
|           | 1400       | 530      | 910  | 1300           | 1685 | 1590           | 1530           | 52-5 | 36- φ 48 |
|           | 1600       | 600      | 1047 | 1433           | 1930 | 1820           | 1750           | 58-5 | 40- φ 55 |
|           | 1800       | 670      | 1152 | 1570           | 2130 | 2020           | 1950           | 62-5 | 44- φ 55 |
|           | 2000       | 760      | 1275 | 1710           | 2345 | 2230           | 2150           | 66-5 | 48- φ 60 |



| Model     | DN<br>(mm) | Size(mm) |     |                |      |                |                |      |          |
|-----------|------------|----------|-----|----------------|------|----------------|----------------|------|----------|
|           |            | L        | H   | H <sub>1</sub> | D    | D <sub>1</sub> | D <sub>2</sub> | b-f  | z* φ d   |
| D943H-25C | 65         | 112      | 93  | 248            | 185  | 145            | 118            | 22-2 | 8- φ 18  |
|           | 80         | 114      | 100 | 257            | 200  | 160            | 132            | 24-2 | 8- φ 18  |
|           | 100        | 127      | 110 | 261            | 235  | 190            | 156            | 24-2 | 8- φ 22  |
|           | 125        | 140      | 114 | 303            | 270  | 220            | 184            | 26-2 | 8- φ 26  |
|           | 150        | 140      | 155 | 325            | 300  | 250            | 211            | 28-2 | 8- φ 26  |
|           | 200        | 152      | 212 | 388            | 360  | 310            | 274            | 30-2 | 12- φ 26 |
|           | 250        | 165      | 257 | 419            | 425  | 370            | 330            | 32-2 | 12- φ 30 |
|           | 300        | 178      | 290 | 453            | 485  | 430            | 389            | 34-2 | 16- φ 30 |
|           | 350        | 190      | 316 | 513            | 555  | 490            | 448            | 38-2 | 16- φ 33 |
|           | 400        | 216      | 380 | 568            | 620  | 550            | 503            | 40-2 | 16- φ 36 |
|           | 450        | 222      | 408 | 598            | 670  | 600            | 548            | 46-2 | 20- φ 36 |
|           | 500        | 229      | 442 | 636            | 730  | 660            | 609            | 48-2 | 20- φ 36 |
|           | 600        | 267      | 499 | 706            | 845  | 770            | 720            | 48-2 | 20- φ 39 |
|           | 700        | 292      | 566 | 777            | 960  | 875            | 820            | 50-5 | 24- φ 42 |
|           | 800        | 318      | 624 | 850            | 1085 | 990            | 928            | 54-5 | 24- φ 48 |
|           | 900        | 330      | 668 | 930            | 1185 | 1090           | 1028           | 58-5 | 28- φ 48 |
|           | 1000       | 410      | 725 | 994            | 1320 | 1210           | 1140           | 62-5 | 28- φ 55 |