

## Triple Eccentric High Performance Butterfly Valves, Wafer Type Series 83W

### • Size Range

DN65 to DN1800 (2½" to 72")

### • Body Material

CF8M/CF8/WCB

### • Pressure Rating

ANSI CLASS 150, CLASS 300

### • Temperature Range

Laminated seat -103°F ~ 1022°F (-75°C~550°C)

Solid metal seat -321°F ~ 1400°F (-196°C~760°C)

### • Operation

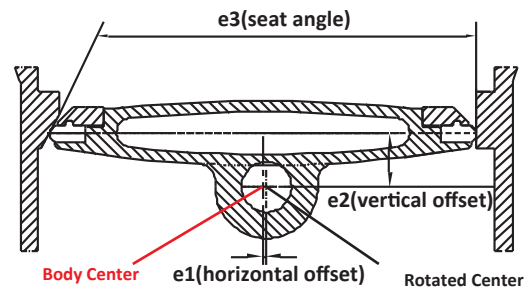
Gear box

Pneumatic actuation

Electric actuation

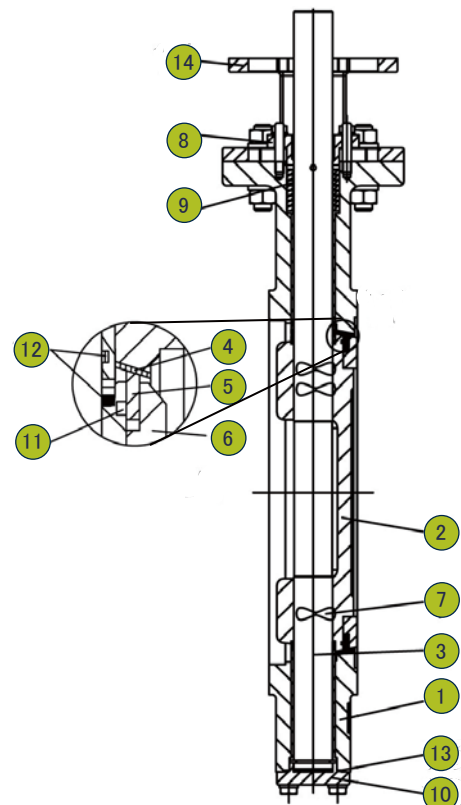
### • Design feature

- Virtually no rubbing from the resilient seal on the seating surface. This enhances the life and performance of the elastomeric disc seal and thereby preventing wear and consequent leakage.
- Disc seal ring designed to be flex could self-adjustment in different pressure and temperature and compress elastically on sealing surface to achieve the best sealing function.
- Body seat with satellite #21 hard face overlay provide long service life, other materials is available on customer request.



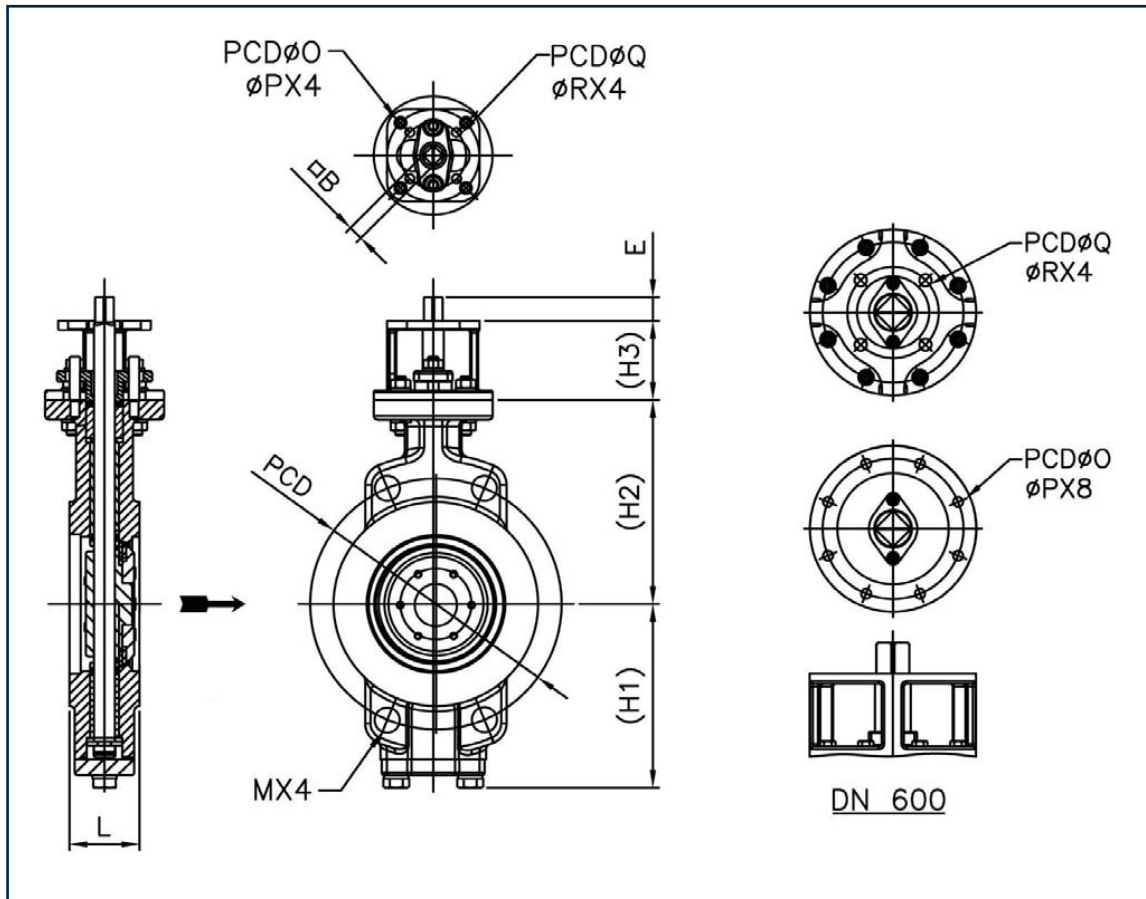
### Materials of structure

| No. | Parts Name     | Materials                                                     | Remark    |
|-----|----------------|---------------------------------------------------------------|-----------|
| 1   | Body           | A351 CF8<br>A351 CF8M<br>A216 WCB                             |           |
| 2   | Disc           | Same as body                                                  |           |
| 3   | Stem           | A564 Gr.630<br>A479 XM-19<br>A182 F6A Class 3                 |           |
| 4   | Body Seat      | Stellited                                                     |           |
| 5   | Disc Seat Ring | A240 316+GRAPHITE<br>A240 304+GRAPHITE<br>UNS S32205+GRAPHITE |           |
| 6   | Retainer       | A351 CF8<br>A351 CF8M                                         |           |
| 7   | Pin            | A182 F316                                                     |           |
| 8   | Gland          | A351 CF8(body WCB)<br>Same as body                            |           |
| 9   | Gland Packing  | Graphite                                                      |           |
| 10  | Bottom Cover   | Same as body                                                  |           |
| 11  | Gasket         | Graphite                                                      |           |
| 12  | Seal           | Graphite                                                      |           |
| 13  | Bottom Packing | Graphite                                                      |           |
| 14  | Yoke           | A216 WCB<br>A536 65-45-12                                     | Above 20" |



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### Series 83W



#### Dimensions

| Valve Size |     | L     | H1  | H2  | H3  | B  | O   | P  | Q   | R  | E  | Cv    |
|------------|-----|-------|-----|-----|-----|----|-----|----|-----|----|----|-------|
| NPS        | MM  |       |     |     |     |    |     |    |     |    |    |       |
| 3"         | 80  | 47    | 137 | 145 | 60  | 11 | 70  | 9  | 50  | 7  | 18 | 173   |
| 4"         | 100 | 53    | 140 | 155 | 60  | 11 | 70  | 9  | 50  | 7  | 18 | 355   |
| 6"         | 150 | 56    | 177 | 200 | 70  | 14 | 102 | 11 | 70  | 9  | 24 | 1040  |
| 8"         | 200 | 63    | 204 | 225 | 70  | 19 | 102 | 11 | 70  | 9  | 28 | 1980  |
| 10"        | 250 | 69    | 252 | 270 | 80  | 22 | 125 | 14 | 102 | 11 | 28 | 3150  |
| 12"        | 300 | 79    | 281 | 300 | 100 | 27 | 140 | 18 | 125 | 14 | 37 | 4680  |
| 14"        | 350 | 79/92 | 317 | 355 | 100 | 32 | 140 | 18 | 125 | 14 | 48 | 6388  |
| 16"        | 400 | 102   | 351 | 385 | 120 | 32 | 165 | 22 | 140 | 18 | 47 | 8312  |
| 18"        | 450 | 114   | 376 | 430 | 120 | 36 | 165 | 22 | 140 | 18 | 48 | 10525 |
| 20"        | 500 | 127   | 411 | 455 | 150 | 36 | 165 | 22 | 140 | 18 | 47 | 13053 |
| 24"        | 600 | 154   | 476 | 540 | 150 | 46 | 254 | 18 | 165 | 22 | 56 | 18610 |