



# SERIES 81 BUTTERFLY VALVES RESILIENT SEATED

**DN50 - DN450**

(Up to DN1200 available)



KDVs Concentric Resilient Seated Butterfly Valves offer excellent durability and ease of operation in a wide range of water & industrial applications. The one piece body design provides maximum strength with

#### **Positive On-Off, Bi Directional Sealing**

Seals at maximum rated pressure with identical flow from either direction.

#### **Teflon Bushing**

PTFE bushings reduce operating torque and provide maximum shaft support. The stem is isolated from the valve body, preventing corrosion.

#### **Pin-less Disc and Stem**

Spline connection provides superior orientation of the disc and stem, reduces corrosion, provides bubble tight sealing and prolongs service life.

#### **Valve Automation**

KDV supplies a wide range of pneumatic & electric actuators and control accessories including:

- Solenoid valves
- Switch enclosures
- Electro-magnetic positioners
- Limit stops
- Handwheel over-rides

## FEATURES & BENEFITS

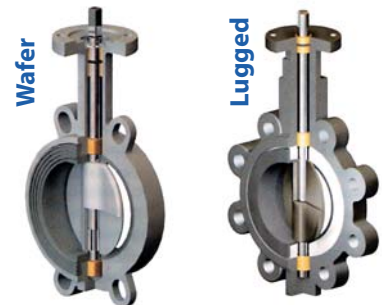
- Bi Directional Sealing
- Teflon Bushing
- Pinless Design

## OPTIONS

- Seat Style
- Body, disc, seat and stem materials
- Extension spindle
- Chain wheel
- Stainless steel bonnet
- Plastic bonnet (DN15-DN50)

## AUTOMATION SYSTEMS

- Pneumatic
- Electric
- Control accessories



## FAST TRACK

In house manufacture and stock holdings allow KDV to deliver quickly, and reliably facilitate fast-track projects. Visit our website for information on the full range of KDV Diaphragm Valves.

[www.kdvflow.com](http://www.kdvflow.com)



**Kim Diaphragm Valves™**

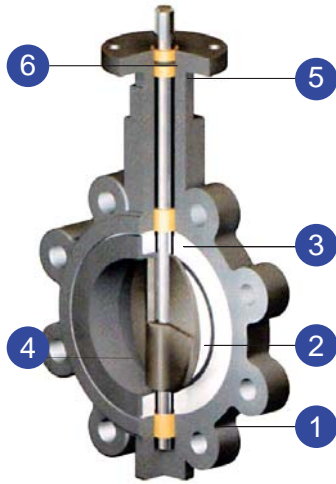
Corrosion and Abrasion Resistant Flow Control

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## RESILIENT SEATED

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(Up to DN1200 available)



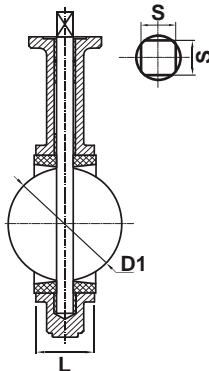
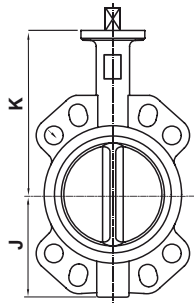
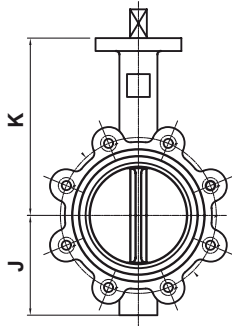
#### Materials Of Construction

| PART      | MATERIAL  |
|-----------|---|
| 1 Body    | Cast Iron, Ductile Iron   |
| 2 Disc*   | Plated Ductile Iron, Stainless Steel                              |
| 3 Stem    | Stainless Steel   |
| 4 Seat    | NBR (Nitrile), EPDM/Viton (FKM),<br>PTFE cover (NBR), Silicon (Q) |
| 5 Bushing | PTFE  |
| 6 O Ring  | NBR, Viton  |

\*PTFE coated disc also available

#### Pressure

| Size                  | Pressure |
|-----------------------|----------|
| 2"-12" (DN50-DN300)   | 16 bar   |
| 14"-18" (DN350-DN450) | 10 bar   |



#### Dimensions & Weight

| Size |     | J   | K   | L   | D1  | B   | G   | Ø   | B2  | Bolt | S  | ISO | Torque Nm | G/Box Ratio | Output End hole | Weight |         |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|----|-----|-----------|-------------|-----------------|--------|---------|
| INCH | MM  |     |     |     |     |     |     |     |     |      |    |     |           |             |                 | LEVER  | GEARBOX |
| 2    | 50  | 80  | 146 | 43  | 53  | 128 | 226 | 150 | 270 | M16  | 9  | F05 | 27        | 24:1        | Ø20             | 4.5    | -       |
| 2½   | 65  | 76  | 154 | 45  | 65  | 128 | 226 | 150 | 270 | M16  | 9  | F05 | 33        | 24:1        | Ø20             | 6.5    | -       |
| 3    | 80  | 99  | 164 | 45  | 79  | 128 | 226 | 150 | 270 | M16  | 9  | F05 | 48        | 24:1        | Ø20             | 7.5    | 13      |
| 4    | 100 | 110 | 173 | 52  | 104 | 128 | 226 | 300 | 270 | M16  | 11 | F07 | 56        | 24:1        | Ø20             | 10     | 16      |
| 5    | 125 | 125 | 190 | 55  | 123 | 128 | 226 | 300 | 270 | M16  | 14 | F07 | 90        | 24:1        | Ø20             | 12     | 18      |
| 6    | 150 | 139 | 206 | 56  | 156 | 128 | 226 | 300 | 270 | M20  | 14 | F07 | 124       | 24:1        | Ø20             | 15     | 21      |
| 8    | 200 | 172 | 238 | 61  | 203 | 179 | 313 | 300 | 300 | M20  | 17 | F10 | 233       | 32:1        | Ø28             | 23     | 33      |
| 10   | 250 | 205 | 268 | 66  | 253 | 179 | 313 | 300 | 300 | M20  | 22 | F10 | 392       | 32:1        | Ø28             | 30     | 45      |
| 12   | 300 | 242 | 315 | 77  | 302 | 200 | 307 | 300 | 300 | M24  | 22 | F10 | 560       | 50:1        | Ø35             | 43     | 59      |
| 14   | 350 | 267 | 368 | 77  | 333 | 200 | 307 | 300 | -   | M24  | -  | F10 | 736       | 50:1        | Ø35             | -      | 75      |
| 16   | 400 | 309 | 400 | 102 | 390 | 255 | 353 | 400 | -   | M24  | -  | F14 | 1011      | 70:1        | Ø40             | -      | 130     |
| 18   | 450 | 328 | 422 | 114 | 441 | 255 | 353 | 400 | -   | M24  | -  | F14 | 1355      | 70:1        | Ø40             | -      | 173     |

1. Wafer to suit all drilling standards, Lugged to suit T/E & ANSI. 2. Larger sizes available. Contact KDV for details. 3. Dimensions & weights are approximate. Contact KDV for a GA drawing to obtain certified measurements.

