

AE BYV334 Butterfly Valve

(Through Shaft withOUT Pin Lug Type)



Design

AE BYV334 Series butterfly valve has a through shaft without pin design meant for more demanding and higher frequency operation.

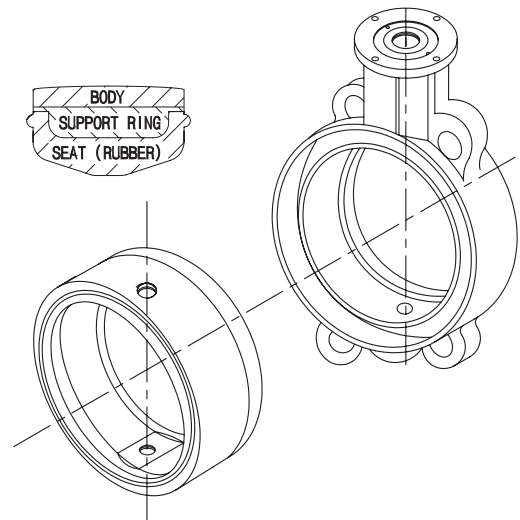
It has a wafer pattern with full threaded lug body and can be used for shut off as well as throttling application. With its resilient cartridge type seat design, it is able to provide shut off pressure of up to 16 bar. The unique cartridge seat design also offers easy seat replacement on site without the need of any special tool. The valve can be easily installed between flanges with no gasket required. The valve can be manually operated by lever, gear or retrofitted to pneumatic and electric actuator for automatic process control with its top flange dimension in accordance to ISO5211.

Specifications

| | |
|--------------------|---|
| Size | DN50 to DN350 |
| Body Material | Ductile Iron (other material on request) |
| Disc Material | CF8M (other material on request) |
| Stem Material | SS410 (other material on request) |
| Seat Material | EPDM (other material on request) |
| Installation | Any direction, between ANSI150# flanges (PN10, PN16, and JIS10K on request) |
| Medium Pressure | Subject to pressure limitation of mounting flanges used |
| Medium Temperature | -20°C to +110°C (EPDM) |
| Operator | Bare Shaft, Aluminium lever or Cast Iron Gear box |

Cartridge Seat Design

Easy disassembly and assembly without damage to seat

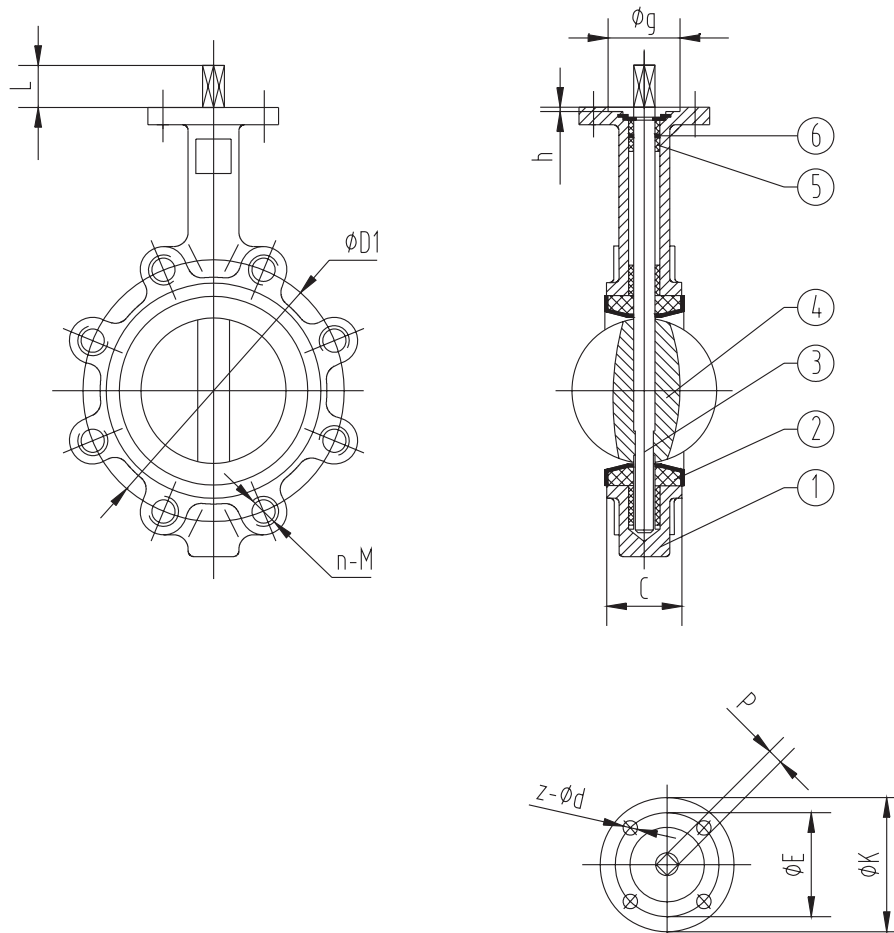


Kv Value

| Size (mm) | Angle of Opening Kv Value (Water) (m³/h) | | | | | | | |
|-----------|---|------|------|------|-------|-------|-------|-------|
| | 20° | 30° | 40° | 50° | 60° | 70° | 80° | 90° |
| 40 | 2.6 | 4.3 | 9.5 | 16 | 22 | 39 | 60 | 69 |
| 50 | 6.7 | 7.8 | 16 | 24 | 48 | 62 | 95 | 116 |
| 65 | 8.6 | 13 | 23 | 38 | 73 | 95 | 145 | 181 |
| 80 | 13 | 20 | 34 | 56 | 112 | 142 | 216 | 267 |
| 100 | 23 | 35 | 61 | 99 | 198 | 259 | 401 | 466 |
| 125 | 50 | 74 | 129 | 211 | 414 | 526 | 845 | 948 |
| 150 | 83 | 121 | 211 | 345 | 677 | 871 | 1392 | 1647 |
| 200 | 142 | 211 | 354 | 591 | 1099 | 1478 | 2302 | 2746 |
| 250 | 220 | 328 | 560 | 974 | 1810 | 2328 | 3664 | 4224 |
| 300 | 319 | 466 | 819 | 1353 | 2629 | 3405 | 5129 | 6336 |
| 350 | 388 | 647 | 1120 | 1905 | 3517 | 4836 | 6964 | 9665 |
| 400 | 552 | 776 | 1483 | 2405 | 4310 | 6336 | 9284 | 11121 |
| 450 | 630 | 1078 | 1978 | 3190 | 6078 | 7914 | 11983 | 15086 |
| 500 | 785 | 1375 | 2457 | 3991 | 7414 | 9914 | 15121 | 19310 |
| 600 | 1078 | 1974 | 3448 | 5250 | 10776 | 14224 | 20336 | 24397 |

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Bare Shaft DN50 to DN350



Standard Materials

| No. | Part | Material |
|-----|---------|-------------------|
| 1 | Body | CI, DI |
| 2 | Seat | EPDM, FKM, PTFE |
| 3 | Shaft | SS410 |
| 4 | Disc | CF8, CF8M, Bronze |
| 5 | Bushing | Polymers |
| 6 | O Ring | NBR |

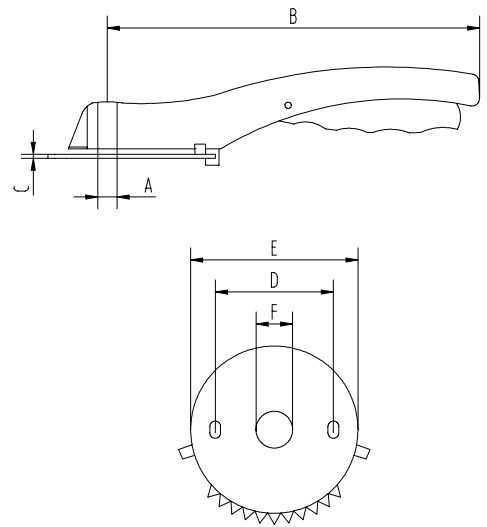
Dimensions (Bare Shaft)

| Size (mm) | ANSI150 | | C | L | P | Upper flange | | | | |
|-----------|---------|---------|------|----|----|--------------|-----|------|----|---|
| | D1 | n-M | | | | K | E | z-d | g | h |
| 50 | 120.5 | 4-5/8" | 42 | 19 | 9 | 65 | 50 | 4-7 | 35 | 3 |
| 65 | 139.5 | 4-5/8" | 44.7 | 19 | 9 | 65 | 50 | 4-7 | 35 | 3 |
| 80 | 152.5 | 4-5/8" | 45.2 | 19 | 9 | 65 | 50 | 4-7 | 35 | 3 |
| 100 | 190.5 | 8-5/8" | 52.1 | 19 | 11 | 90 | 70 | 4-9 | 55 | 3 |
| 125 | 216 | 8-3/4" | 54.4 | 19 | 14 | 90 | 70 | 4-9 | 55 | 3 |
| 150 | 241.5 | 8-3/4" | 55.8 | 19 | 14 | 90 | 70 | 4-9 | 55 | 3 |
| 200 | 298.5 | 8-3/4" | 60.6 | 24 | 17 | 125 | 102 | 4-12 | 70 | 3 |
| 250 | 362 | 12-7/8" | 65.6 | 24 | 22 | 125 | 102 | 4-12 | 70 | 3 |
| 300 | 432 | 12-7/8" | 76.9 | 24 | 22 | 125 | 102 | 4-12 | 70 | 3 |
| 350 | 476 | 12-1" | 79.5 | 29 | 22 | 125 | 102 | 4-12 | 70 | 3 |

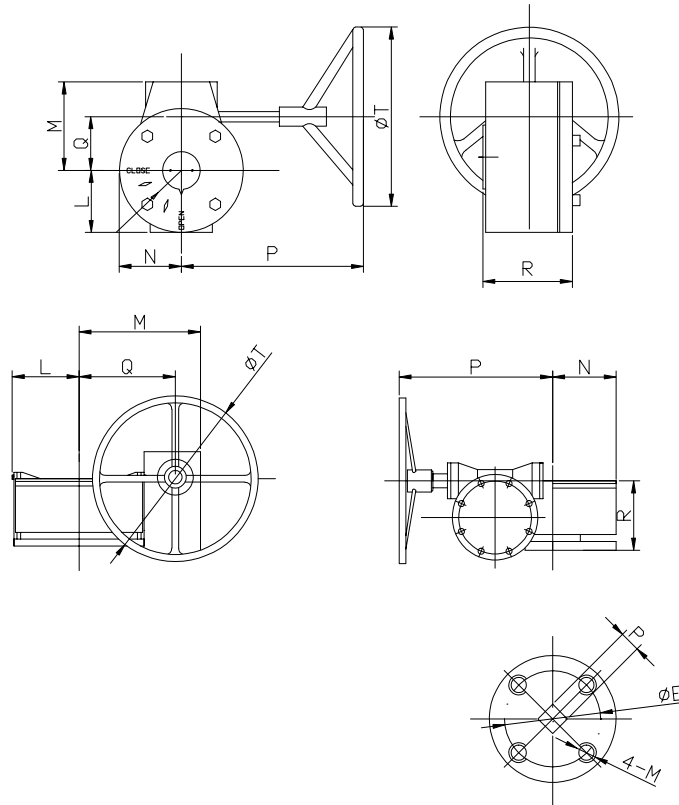
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Lever Operator

| Valve Size | A | B | C | D | E | F | Weight (kg) |
|-------------|---------|-----|-----|-----|-----|----|-------------|
| DN40 - 80 | 9 x 9 | 170 | 2.5 | 50 | 72 | 20 | 0.4 |
| DN100 | 11 x 11 | 215 | 2.5 | 70 | 92 | 21 | 0.5 |
| DN125 - 150 | 14 x 14 | 215 | 2.5 | 70 | 92 | 21 | 0.5 |
| DN200 | 17 x 17 | 350 | 2.5 | 102 | 127 | 35 | 0.6 |
| DN250 - 300 | 22 x 22 | 350 | 2.5 | 102 | 127 | 35 | 0.6 |



Gear Operator



| Valve Size | L | Q | M | N | P | R | T | P | E | M | Weight (kg) |
|-------------|----|----|-----|----|-----|----|-----|-------------|---------|---------|-------------|
| DN40 - 150 | 51 | 45 | 70 | 51 | 150 | 67 | 146 | 9 / 11 / 14 | 50 / 70 | M6 / M8 | 4.0 |
| DN200 - 250 | 72 | 66 | 98 | 66 | 207 | 84 | 285 | 17 / 22 | 102 | M10 | 8.0 |
| DN300 - 350 | 80 | 77 | 107 | 76 | 195 | 84 | 285 | 22 | 102 | M10 | 10.3 |