



INTERVALVE® POONAWALLA LTD.

The name says it all



INTERVALVE IVGK

General Purpose Rubber Lined Butterfly Valve



A real workhorse from the IV stables, IVGK model Butterfly valve incorporates the optimum design features to provide long trouble free service in the field. This general purpose soft seated Butterfly valve has a fully rubber lined single piece body with a centric disc construction and is available in wafer type body pattern.

The body liner which also functions as the soft seat, comes in either a replaceable version or an integrally moulded (bonded) version and offers - 100 % bi-directional sealing against full vacuum to rated pressures of PN10 or PN16.

The wafer style body has universal design to fit between pipe flanges of almost all popular flange standards.

Conformity to Codes & Standards :

| | |
|----------------------------------|--|
| General design and manufacturing | : API 609 category A / EN 593 |
| Valve face to face dimensions | : API 609 category A / EN 593/ Short wafer as per ISO 5752 Tab 5 |
| Top flange drilling | : ISO 5211 |
| Valve inspection and testing | : API 598 / EN 12261 PART 1 |
| Flange standard | : Class 150, DIN EN1092 - PN 6 / 10 / 16, JIS 5K / 10K / 16K BS 10 Tab D&E, IS 6392 Table 11 / 17, For sizes > DN 650 ANME B16.47 Class 150 Series A / B & BS 3293 Class 150 and API 605 |

Technical specifications :

| | |
|---|--|
| • Valve type | : Centric Disc Rubber Lined Butterfly valve with a single piece body. |
| • Body type | : Short wafer (IVGK) |
| • Seat type | : Replaceable for sizes DN 50 to DN 600 < PN10 rating. Bonded seat for sizes DN 40 to DN 1200 for applicable ratings. |
| • End connection | : Wafer sandwiched |
| • Size range | : DN 40 to DN 1200 |
| • Pressure rating | : *DN40 to DN 600 - ASME Class 150 (max) DN 650 to DN 1200 - PN10 (max.) |
| • Operating temperature range | : -25°C to 200°C (depending on MOC) |
| • Seat leakage | : Tight shut off (Bidirectional) |
| • Operation | : • Hand lever up to size DN250 • Worm gear boxes for sizes from DN 40 to DN 1200 |
| • Standard Material of Construction (MOC) | : • Pneumatic / Electric actuator operation - optional Valve Body : |
| Valve Body | : CI / SGI / WCB / CF8 / CF8M |
| Valve Disc | : SGI / WCB / CF8 / CF8M |
| Seat Liner | : EPDM / Viton / Nitrile / Neoprene / Hypalon / Silicon |
| Drive end & non drive end shafts | : SS 410 / SS 316 SH / 17.4PH |

*PN16 and below ratings are as per EN593



DIMENSIONS (mm) with Pressed Steel Handler

| VALVE SIZE | ØA | B | C | D | E | F | WT.(kg) Approx. |
|------------|-----|----|-----|-----|-----|-----|-----------------|
| 40 | 40 | 33 | 68 | 103 | 150 | 195 | 4.0 |
| 50 | 50 | 43 | 73 | 113 | 160 | 195 | 4.5 |
| 65 | 65 | 46 | 80 | 121 | 170 | 195 | 5.0 |
| 80 | 80 | 46 | 88 | 128 | 175 | 195 | 5.5 |
| 100 | 100 | 52 | 104 | 146 | 195 | 250 | 7.0 |
| 125 | 125 | 56 | 116 | 158 | 205 | 250 | 8.5 |
| 150 | 150 | 56 | 138 | 174 | 230 | 300 | 12.0 |

DIMENSIONS (mm) with Cast Handler

| VALVE SIZE | ØA | B | C | D | E | F | WT.(kg) Approx. |
|------------|-----|----|-----|-----|-----|-----|-----------------|
| 200 | 200 | 60 | 163 | 198 | 255 | 500 | 16.0 |
| *250 | 250 | 68 | 210 | 245 | 300 | 500 | 26.0 |

*Valve rating PN10 Only

Dimensions in bracket are only for reference

DIMENSIONS (mm) for PN10 & PN16 with Worm Gear

| VALVE SIZE | ØA | B | C | D | E | F | ØG | H | WT.(kg) Approx. |
|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----------------|
| 40 | 40 | 33 | 68 | 103 | 230 | 195 | 175 | 127 | 8.6 |
| 50 | 50 | 43 | 73 | 113 | 240 | 195 | 175 | 127 | 9.6 |
| 65 | 65 | 46 | 80 | 121 | 248 | 195 | 175 | 127 | 10.0 |
| 80 | 80 | 46 | 88 | 128 | 255 | 195 | 175 | 127 | 10.6 |
| 100 | 100 | 52 | 104 | 146 | 273 | 195 | 175 | 127 | 12.1 |
| 125 | 125 | 56 | 116 | 158 | 285 | 195 | 175 | 127 | 13.6 |
| 150 | 150 | 56 | 138 | 174 | 340 | 242 | 250 | 182 | 18.5 |
| 200 | 200 | 60 | 163 | 198 | 365 | 242 | 250 | 182 | 22.0 |
| 250 | 250 | 68 | 210 | 245 | 410 | 242 | 250 | 182 | 31.5 |
| 300 | 300 | 78 | 237 | 270 | 486 | 285 | 350 | 252 | 42.0 |
| 350 | 336 | 78 | 265 | 312 | 528 | 285 | 350 | 252 | 51.0 |
| 400 | 386 | 102 | 312 | 360 | 705 | 365 | 600 | 388 | 82.5 |
| 450 | 436 | 114 | 337 | 390 | 735 | 365 | 600 | 388 | 93.5 |
| 500 | 486 | 127 | 362 | 410 | 785 | 370 | 600 | 432 | 139.0 |

DIMENSIONS (mm) for PN10 with Worm Gear

| VALVE SIZE | ØA | B | C | D | E | F | ØG | H | WT.(kg) Approx. |
|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----------------|
| 600 | 586 | 154 | 446 | 490 | 862 | 370 | 600 | 432 | 179.0 |

DIMENSIONS (mm) for PN16 with Worm Gear

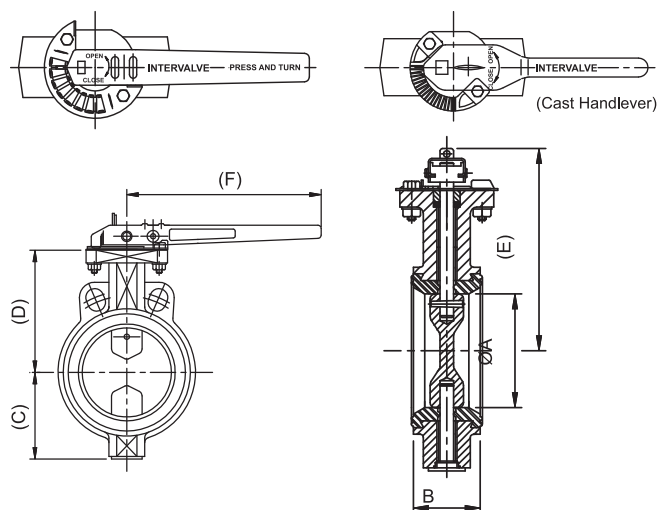
| VALVE SIZE | ØA | B | C | D | E | F | ØG | H | WT.(kg) Approx. |
|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----------------|
| 600 | 586 | 154 | 446 | 490 | 825 | 420 | 500 | 500 | 231.0 |

Dimensions in bracket are only for reference

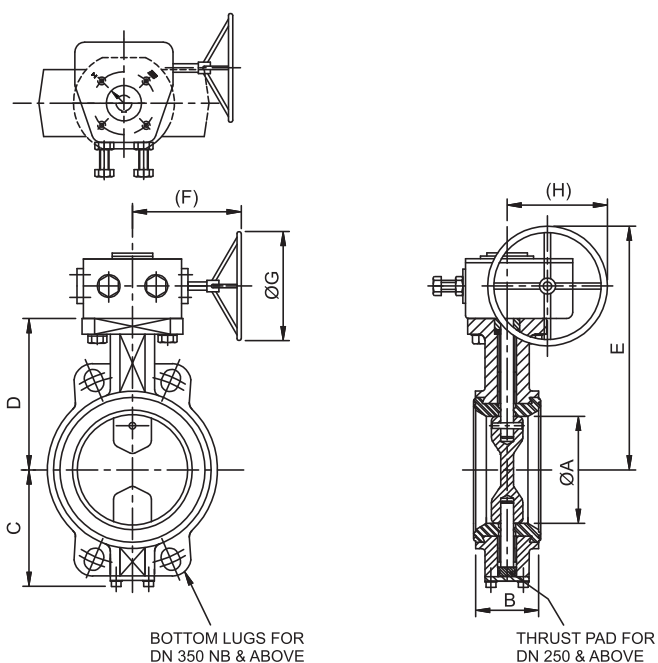
Key features :

- Unique triple sealing system for shaft sealing, eliminates any fugitive emission or secondary leakage.
- Self lubricated PTFE lined bearings for both drive end and non-drive end shaft ensures minimum bearing friction torque.
- Seat liner extending on to the flange contact faces, eliminates the need for separate flange gaskets during installation.
- Controlled compression of the gasket face to offer optimum sealing & prevent gasket face crushing failure.
- Bi-directional valve with tight shut off sealing capability to hold vacuum to rated pressure in either direction.
- Excellent adaptability for actuated operation through standardised top flange mounting dimensions for actuator fitment.
- Suitability for ON/OFF as well as throttling duties.
- Choice of seat and disc materials to suit media conditions and service requirements.
- Adaptability to fit between companion flanges of all popular flange standards for the wafer style body.
- Possibility of lower seat rating to obtain reduced operating torque and extended seat life for low operating pressures.
- Valves of DN 250 and higher are provided with bottom thrust bearings.
- Valve of DN 600 and higher are provided with additional top shaft Sealing and guide bush.

IVGK Butterfly Valve with Handler



IVGK Butterfly Valve with Worm Gear



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