

# Wafer Pattern Butterfly Valve - PTFE Liner

LV 9524

Wafer to suit **PN10/16 & ANSI 150\*** Flanges, 2 Piece Ductile Iron Body,  
AISI 316 Stainless Steel Disc, PTFE Liner, Lever Operated 2" to 8", Gearbox Operated 10" & 12"  
Suitable for Vacuum Use. \*Please specify on order

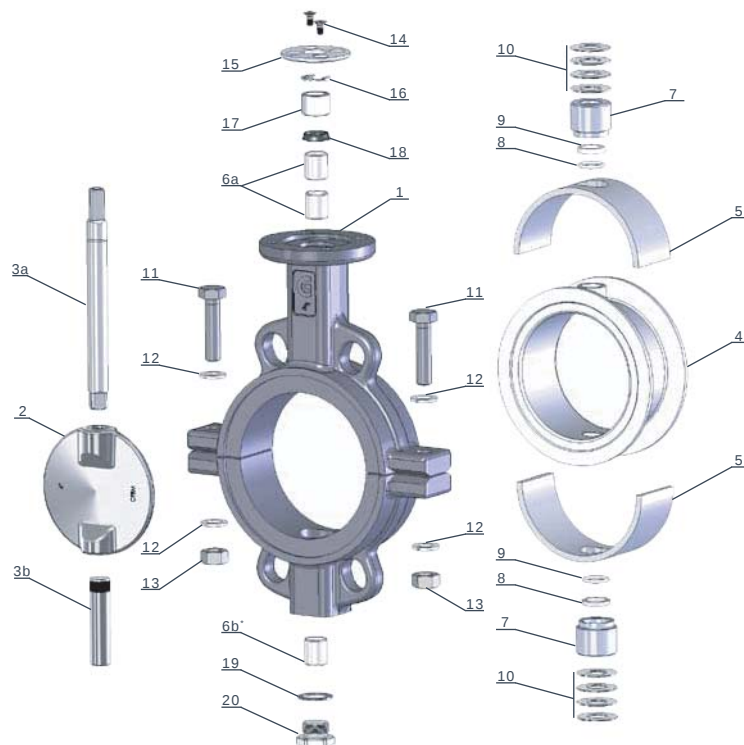


## Pressure / Temperature Specifications

|             |                |
|-------------|----------------|
| Pressure    | PN10           |
| Temperature | -60°C to 190°C |

## Material Specifications

|    |                  |                                      |
|----|------------------|--------------------------------------|
| 1  | Body             | GS400 Ductile Iron                   |
| 2  | Disc             | CF8M Stainless Steel                 |
| 3a | Upper Shaft      | 316 Stainless Steel                  |
| 3b | Lower Shaft      | 316 Stainless Steel                  |
| 4  | Seat             | PTFE                                 |
| 5  | Elastic Support  | Silicone                             |
| 6a | Upper Shaft Bush | Steel & PTFE                         |
| 6b | Lower Shaft Bush | Steel & PTFE                         |
| 7  | Housing          | 316 Stainless Steel                  |
| 8  | O-ring           | FEP & Viton                          |
| 9  | C-ring           | PTFE                                 |
| 10 | Spring Set       | Steel                                |
| 11 | Screw            | Zinc Plated Steel                    |
| 12 | Washer           | Zinc Plated Steel                    |
| 13 | Screw Nut        | Zinc Plated Steel                    |
| 14 | Screw            | Zinc Plated Steel                    |
| 15 | Upper Flange     | IFEX 2" to 6"<br>Aluminium 8" to 12" |
| 16 | Stop Ring        | Steel                                |
| 17 | Upper Bush       | PTFE                                 |
| 18 | O-ring           | Viton                                |
| 19 | Plug Packing     | Aluminium                            |
| 20 | Threaded Plug    | Zinc Plated Steel                    |



## KV Rates

| Opening (°)> | 10     | 15     | 20     | 25     | 30     | 35     | 40     | 45     | 50     |
|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2"           | -      | 0.2    | 0.9    | 3.0    | 6.1    | 9.9    | 15.0   | 21.0   | 29.0   |
| 2 ½"         | -      | 0.6    | 2.5    | 6.1    | 11.0   | 18.0   | 27.0   | 38.0   | 51.0   |
| 3"           | -      | 1.8    | 5.2    | 12.0   | 21.0   | 33.0   | 49.0   | 68.0   | 91.0   |
| 4"           | -      | 2.4    | 9.5    | 22.0   | 39.0   | 60.0   | 88.0   | 121.0  | 159.0  |
| 5"           | -      | 4.2    | 15.0   | 38.0   | 69.0   | 105.0  | 148.0  | 199.0  | 262.0  |
| 6"           | -      | 5.6    | 23.0   | 61.0   | 112.0  | 166.0  | 228.0  | 303.0  | 394.0  |
| 8"           | -      | 14.0   | 110.0  | 125.0  | 211.0  | 303.0  | 405.0  | 528.0  | 679.0  |
| 10"          | 21.0   | 80.0   | 156.0  | 225.0  | 310.0  | 433.0  | 591.0  | 774.0  | 988.0  |
| 12"          | 49.0   | 188.0  | 280.0  | 354.0  | 381.0  | 521.0  | 742.0  | 987.0  | 1252.0 |
| Opening (°)> | 55     | 60     | 65     | 70     | 75     | 80     | 85     | 90     |        |
| 2"           | 39.0   | 53.0   | 72.0   | 92.0   | 109.0  | 115.0  | 115.0  | 116.0  |        |
| 2 ½"         | 68.0   | 90.0   | 121.0  | 161.0  | 209.0  | 240.0  | 253.0  | 257.0  |        |
| 3"           | 119.0  | 156.0  | 209.0  | 283.0  | 381.0  | 457.0  | 502.0  | 508.0  |        |
| 4"           | 207.0  | 269.0  | 357.0  | 487.0  | 662.0  | 815.0  | 906.0  | 925.0  |        |
| 5"           | 338.0  | 434.0  | 565.0  | 768.0  | 1059.0 | 1303.0 | 1457.0 | 1492.0 |        |
| 6"           | 505.0  | 641.0  | 820.0  | 1097.0 | 1507.0 | 1861.0 | 2008.0 | 2168.0 |        |
| 8"           | 863.0  | 1085.0 | 1364.0 | 1788.0 | 2425.0 | 3043.0 | 3642.0 | 3838.0 |        |
| 10"          | 1247.0 | 1591.0 | 2065.0 | 2715.0 | 3625.0 | 4768.0 | 4890.0 | 5010.0 |        |
| 12"          | 1571.0 | 2059.0 | 2807.0 | 3744.0 | 4935.0 | 6831.0 | 8230.0 | 9233.0 |        |

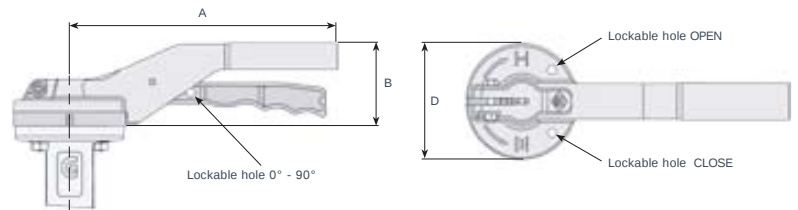
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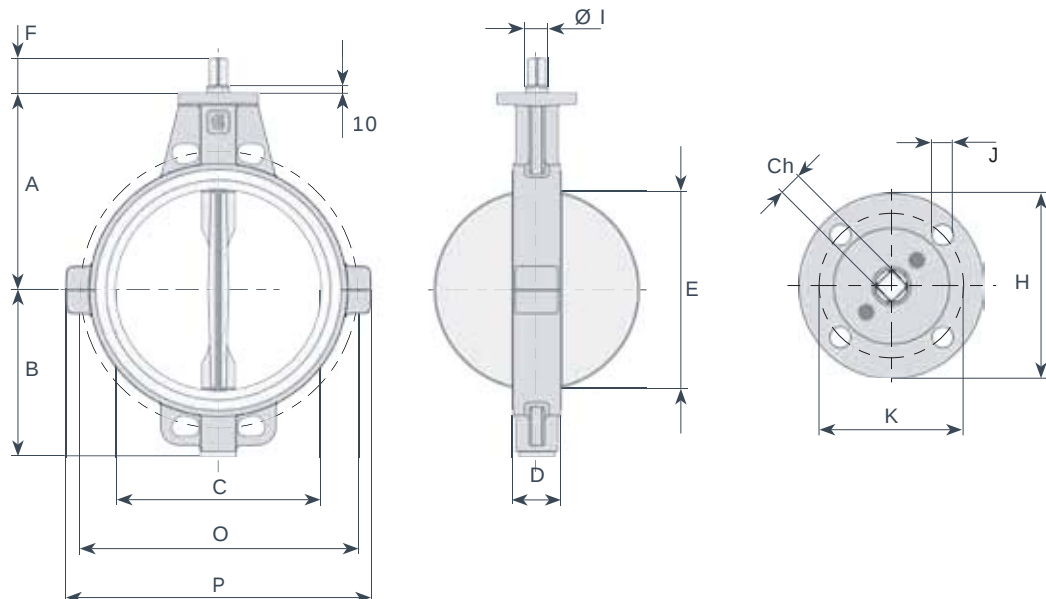
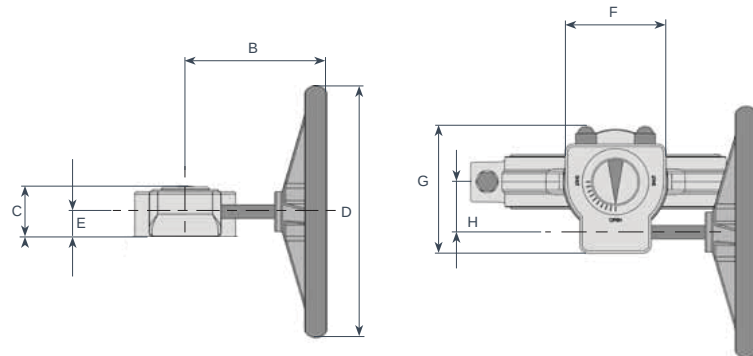
Handle Dimensions

|   | 2"  | 3"  | 4"  | 6"  | 8"  |
|---|-----|-----|-----|-----|-----|
| A | 220 | 220 | 220 | 275 | 340 |
| B | 67  | 67  | 67  | 67  | 76  |
| D | 93  | 93  | 93  | 93  | 125 |



Gearbox Dimensions

|   | 10" | 12" |
|---|-----|-----|
| B | 215 | 215 |
| C | 56  | 56  |
| D | 250 | 250 |
| E | 33  | 33  |
| F | 120 | 120 |
| G | 150 | 150 |
| H | 60  | 60  |



Dimensions

| Size | 2"  | 2 1/2" | 3"  | 4"  | 5"  | 6"   | 8"   | 10"  | 12"  |
|------|-----|--------|-----|-----|-----|------|------|------|------|
| A    | 138 | 144    | 158 | 173 | 186 | 202  | 240  | 270  | 300  |
| B    | 81  | 98     | 110 | 128 | 140 | 155  | 190  | 220  | 247  |
| C    | 55  | 68     | 81  | 101 | 126 | 150  | 200  | 250  | 298  |
| D    | 43  | 46     | 46  | 52  | 56  | 56   | 60   | 68   | 78   |
| E    | 35  | 50     | 67  | 87  | 113 | 140  | 191  | 241  | 289  |
| F    | 34  | 34     | 34  | 34  | 34  | 34   | 38   | 38   | 38   |
| ØI   | 14  | 14     | 14  | 16  | 18  | 18   | 22   | 30   | 30   |
| Ch   | 11  | 11     | 11  | 11  | 14  | 14   | 17   | 22   | 22   |
| H    | 90  | 90     | 90  | 90  | 90  | 90   | 125  | 125  | 125  |
| K    | 70  | 70     | 70  | 70  | 70  | 70   | 102  | 102  | 102  |
| J    | 9   | 9      | 9   | 9   | 9   | 9    | 11   | 11   | 11   |
| P    | 165 | 186    | 196 | 220 | 250 | 278  | 355  | 398  | 455  |
| ISO  | F07 | F07    | F07 | F07 | F07 | F07  | F10  | F10  | F10  |
| Kg   | 4.0 | 4.7    | 5.0 | 7.4 | 9.5 | 11.2 | 16.2 | 27.5 | 35.0 |

Torque Figures (Nm)

| Size   | 2"   | 2 1/2" | 3"   | 4"   | 5"   | 6"   | 8"    | 10"   | 12"   |
|--------|------|--------|------|------|------|------|-------|-------|-------|
| 0 Bar  | 13.0 | 15.0   | 28.0 | 32.0 | 45.0 | 53.0 | 128.0 | 198.0 | 214.0 |
| 6 Bar  | 16.0 | 21.0   | 42.0 | 54.0 | 57.0 | 63.0 | 153.0 | 232.0 | 296.0 |
| 10 Bar | 19.0 | 24.0   | 52.0 | 65.0 | 75.0 | 94.0 | 188.0 | 296.0 | 366.0 |