



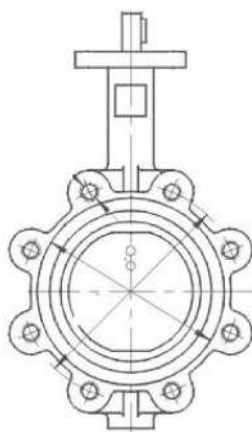
# SAUDI PIPE SYSTEMS CO.

## BUTTERFLY VALVE BUW- 109 Lug / Wafer



Ductile Iron body, Geometric drive,  
Moulded in seat liner,

Applicable Specification :  
MSS-SP 67 , MSS-SP 25



|                            |                                                                          |
|----------------------------|--------------------------------------------------------------------------|
| <b>Application</b>         | For water and neutral liquids                                            |
| <b>Working Pressure</b>    | 16 Bar                                                                   |
| <b>Working Temperature</b> | Up to 100°                                                               |
| <b>Sealing Pressure</b>    | 16 Bars                                                                  |
| <b>Operation</b>           | By Lever lock or Gear Operated                                           |
| <b>Wedge</b>               | Aluminium Bronze , ASTM B-148 , Alloy 954 / 955<br>Option (St.Steel 304) |
| <b>Type</b>                | Wafer Type / Lug Type                                                    |
| <b>Coating</b>             | Epoxy Power coating (200 - 300 microns)                                  |

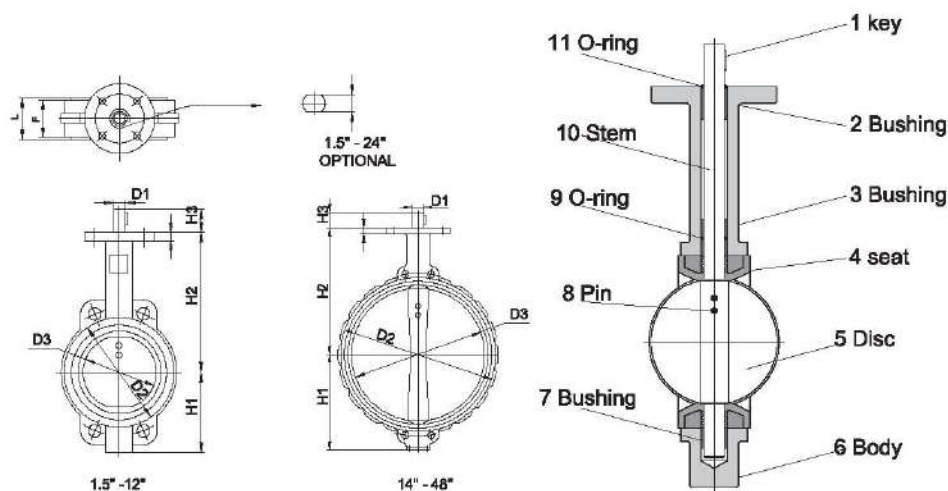
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## BUTTERFLY VALVE WAFER TYPE BUW - 109



Dimensions of Wafer Butterfly Valve

Unit :mm

| Valve Size | H1  | H2  | H3  | L   | F   | D1    | D2   | D3   | H  | B    |
|------------|-----|-----|-----|-----|-----|-------|------|------|----|------|
| 40         | 70  | 145 | 32  | 36  | 33  | 12.7  | 82   | 41   | 10 | 12.7 |
| 50         | 76  | 162 | 32  | 45  | 42  | 12.7  | 88   | 51   | 10 | 12.7 |
| 65         | 89  | 175 | 32  | 48  | 45  | 12.7  | 108  | 63   | 10 | 12.7 |
| 80         | 95  | 181 | 32  | 49  | 45  | 12.7  | 118  | 77   | 10 | 12.7 |
| 100        | 114 | 200 | 32  | 55  | 52  | 15.9  | 156  | 103  | 12 | 12.7 |
| 125        | 127 | 213 | 32  | 58  | 54  | 19.1  | 181  | 122  | 14 | 12.7 |
| 150        | 140 | 225 | 32  | 59  | 56  | 19.1  | 210  | 154  | 14 | 12.7 |
| 200        | 177 | 260 | 45  | 64  | 60  | 22.2  | 260  | 201  | 17 | 14.3 |
| 250        | 203 | 292 | 45  | 70  | 66  | 28.6  | 321  | 245  | 22 | 14.3 |
| 300        | 242 | 337 | 45  | 80  | 76  | 31.7  | 384  | 300  | 24 | 19.1 |
| 350        | 267 | 368 | 45  | 80  | 76  | 31.7  | 400  | 332  | 24 | 19.1 |
| 400        | 298 | 400 | 51  | 90  | 86  | 33.3  | 465  | 388  | 27 | 19.1 |
| 450        | 318 | 422 | 51  | 109 | 105 | 38    | 514  | 438  | 27 | 19.1 |
| 500        | 349 | 479 | 64  | 135 | 130 | 41.15 | 559  | 490  | 32 | 22.2 |
| 600        | 410 | 562 | 70  | 156 | 151 | 50.65 | 686  | 590  | 36 | 22.2 |
| 700        | 520 | 624 | 72  | 169 | 165 | 55    | 795  | 692  | —  | 29   |
| 750        | 616 | 648 | 72  | 173 | 167 | 55    | 851  | 741  | —  | 29   |
| 800        | 591 | 672 | 72  | 195 | 190 | 55    | 900  | 772  | —  | 29   |
| 900        | 611 | 768 | 77  | 211 | 207 | 75    | 1002 | 842  | —  | 31.8 |
| 1000       | 665 | 823 | 85  | 229 | 222 | 85    | 1111 | 939  | —  | 31.8 |
| 1100       | 777 | 858 | 85  | 261 | 256 | 85    | 1180 | 1026 | —  | 31.8 |
| 1200       | 864 | 940 | 150 | 286 | 276 | 92    | 1261 | 1156 | —  | 31.8 |

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# SAUDI PIPE SYSTEMS CO.

## BUTTERFLY VALVE BUW - 109

### Components List

| Item | Description    | Materials                                |
|------|----------------|------------------------------------------|
| 1    | Key            | Carbon Steel                             |
| 2    | Collar Bushing | Brass ASTM B 124                         |
| 3    | Upper Bushing  | Copper CDA 122                           |
| 4    | Seat           | NBR or EPDM                              |
| 5    | Disc           | AL-BRONZE B-148 Alloy 954 or SS 304      |
| 6    | Body           | Ductile Iron ASTM A-536                  |
| 7    | Lower Bushing  | Copper CDA 122                           |
| 8    | Pin            | ASTM A582 Type 416 or ASTM A276 Type 410 |
| 9    | Ring           | NBR or EPDM                              |
| 10   | Stem           | SS 304                                   |
| 11   | Ring           | NBR or EPDM                              |

### Performance Data

| Valve Size(inch)       |            | 1.5"-24"                                                                  | 28"-48" |
|------------------------|------------|---------------------------------------------------------------------------|---------|
| Nominal Pressure(MPa)  |            | 1.6                                                                       | 1.0     |
| testing pressure (MPa) | body shell | 2.4                                                                       | 1.5     |
|                        | sealing    | 1.76                                                                      | 1.1     |
| medium temperature(°C) |            | normal - 45°C -130°C special 200°C (instantaneous)                        |         |
| Suitable medium        |            | Fresh water, waste water, sea water, vapors, gas, oils, acid and alkaline |         |
| Operation methods      |            | handle, electric, pneumatic and liquid-driving                            |         |

Designed to comply with MSS SP-67 and API 609.

Compatible with ANSI Class 125/150, DIN, BS and JIS flanges.

Available with handles (2" to 12"), manual gear operators (2" to 48"),

And electric or pneumatic actuators (2" to 48").

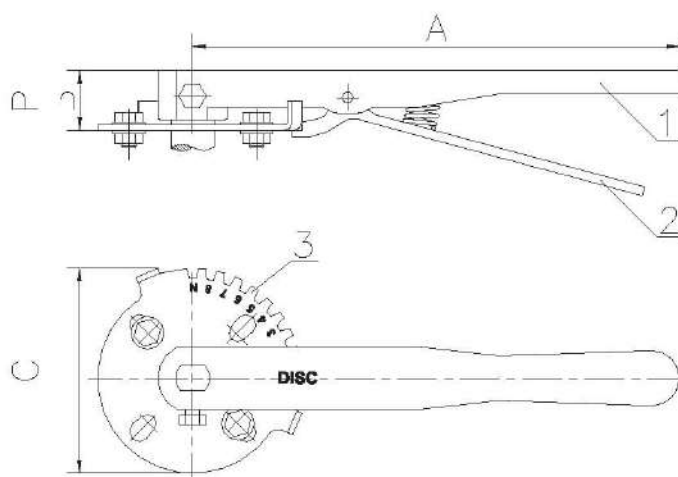
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# SAUDI PIPE SYSTEMS CO.

## LEVER OPERATOR



The lever handle and throttling plate provide throttling notches every 10° for excellent manual control in balancing up 90° or shut off service.

### Components List:

1. Handle———Malleable Cast Iron
2. Throttle Plate——Zinc Plated steel
3. Lever———Malleable Cast Iron

### Dimensions

| Valve Size | A   | B  | C   |
|------------|-----|----|-----|
| 23 - 63    | 260 | 32 | 112 |
| 83 - 123   | 356 | 38 | 164 |

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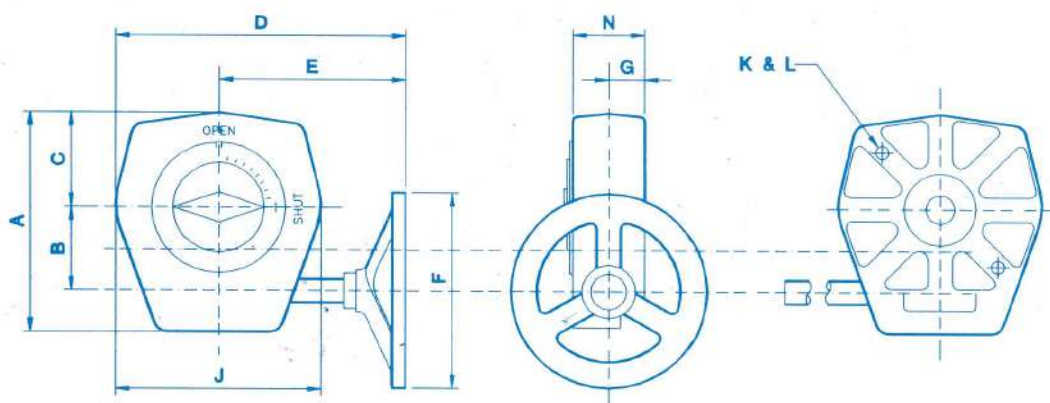
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# SAUDI PIPE SYSTEMS CO.

## GEAR OPERATOR OPTION & ACCESSORIES



The SPS butterfly valve can be provided with heavy-duty weatherproof operator and indicator. Recommended for valves 8" and larger, for trouble free operation in all moisture and weather conditions. Operator is a self locking worm gear type, equipped with adjustable stops at open and shut positions

| VALVE<br>SIZE | DIMENSIONS |      |      |       |      |   |      |      |      |
|---------------|------------|------|------|-------|------|---|------|------|------|
|               | A          | B    | C    | D     | E    | F | G    | H    | J    |
| 2"            | 5.19       | 1.83 | 2.19 | 6.25  | 4.25 | 6 | 1.13 | 2.36 | 4.75 |
| 2 1/2"-3"     | 5.19       | 1.83 | 2.19 | 6.25  | 4.25 | 6 | 1.13 | 2.36 | 4.75 |
| 4"            | 5.19       | 1.83 | 2.19 | 6.25  | 4.25 | 6 | 1.13 | 2.36 | 4.75 |
| 5"            | 5.19       | 1.83 | 2.19 | 6.25  | 4.25 | 6 | 1.13 | 2.36 | 4.75 |
| 6"            | 5.19       | 1.83 | 2.19 | 10.25 | 7.88 | 6 | 1.13 | 2.36 | 4.75 |
| 8"            | 5.19       | 1.83 | 2.19 | 10.25 | 7.88 | 9 | 1.13 | 2.36 | 4.75 |
| 10"           | 5.93       | 2.36 | 2.43 | 10.25 | 7.88 | 9 | 1.13 | 2.36 | 5.25 |
| 12"           | 5.93       | 2.36 | 2.43 | 10.25 | 7.88 | 9 | 1.13 | 2.36 | 5.25 |

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