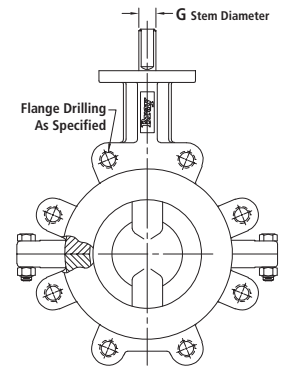
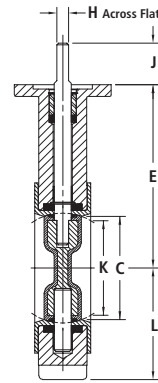
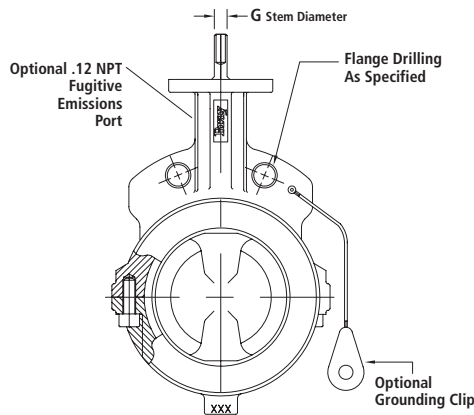
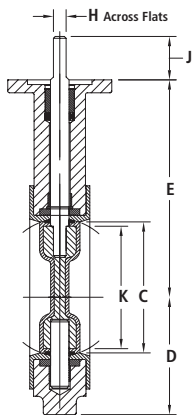
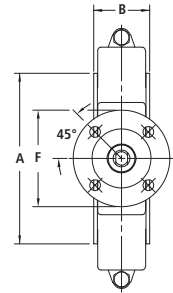
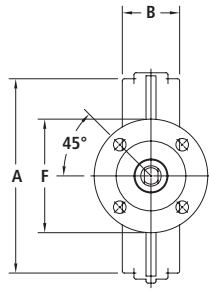


Series 22 Wafer

Series 23 Lug



| IMPERIAL DIMENSIONS: Inches | | | | | | | | | | | | | | | | | Lug Bolting Data | | | |
|-----------------------------|-------|------|-------|-------|------|--------------------|-------------|---------------|------|-----|------|-------|-------|------|--------------|---------------|------------------|-------------|-------------|--------------------|
| Valve Size | A | B | C | E | F | Top Plate Drilling | | | G | H | J | K | L | | Adapter Code | Weight (lbs.) | | Bolt Circle | No of Holes | Threads ISO Coarse |
| | | | | | | BC | No of Holes | Hole Diameter | | | | | Wafer | Lug | | Wafer | Lug | | | |
| 2 | 3.88 | 1.69 | 2.00 | 5.50 | 3.54 | 2.76 | 4 | .39 | .55 | .39 | 1.25 | 1.13 | 2.22 | 2.30 | A | 6.5 | 8.0 | 4.75 | 4 | 5/8-11 |
| 2 1/2 | 4.38 | 1.81 | 2.50 | 6.00 | 3.54 | 2.76 | 4 | .39 | .55 | .39 | 1.25 | 1.77 | 2.47 | 2.57 | A | 7.5 | 10.0 | 5.50 | 4 | 5/8-11 |
| 3 | 5.00 | 1.81 | 3.00 | 6.25 | 3.54 | 2.76 | 4 | .39 | .55 | .39 | 1.25 | 2.44 | 2.81 | 2.81 | A | 8.5 | 11.0 | 6.00 | 4 | 5/8-11 |
| 4 | 6.25 | 2.05 | 4.00 | 7.00 | 3.54 | 2.76 | 4 | .39 | .63 | .43 | 1.25 | 3.48 | 3.56 | 4.09 | B | 13.5 | 17.5 | 7.50 | 8 | 5/8-11 |
| 5 | 7.38 | 2.20 | 5.00 | 7.50 | 3.54 | 2.76 | 4 | .39 | .75 | .51 | 1.25 | 4.53 | 4.28 | 4.61 | C | 16.0 | 21.0 | 8.50 | 8 | 3/4-10 |
| 6 | 8.50 | 2.20 | 5.75 | 8.00 | 3.54 | 2.76 | 4 | .39 | .75 | .51 | 1.25 | 5.35 | 4.78 | 5.06 | C | 20.5 | 28.5 | 9.50 | 8 | 3/4-10 |
| 8 | 10.62 | 2.36 | 7.75 | 9.50 | 5.91 | 4.92 | 4 | .57 | .87 | .63 | 1.25 | 7.43 | 6.03 | 6.05 | D | 38.5 | 51.5 | 11.75 | 8 | 3/4-10 |
| 10 | 12.75 | 2.68 | 9.75 | 10.75 | 5.91 | 4.92 | 4 | .57 | 1.18 | .87 | 2.00 | 9.42 | 7.41 | 7.69 | E | 62.0 | 76.0 | 14.25 | 12 | 7/8-9 |
| 12 | 14.88 | 3.07 | 11.75 | 12.25 | 5.91 | 4.92 | 4 | .57 | 1.18 | .87 | 2.00 | 11.39 | 8.41 | 9.02 | E | 76.0 | 116.0 | 17.00 | 12 | 7/8-9 |

Note: K dimension is disc chordal dimension at valve face.

| METRIC DIMENSIONS: Millimeters | | | | | | | | | | | | | | | | | Lug Bolting Data | | | |
|--------------------------------|-----|----|-----|-----|-----|--------------------|-------------|---------------|----|----|----|-----|-------|-----|--------------|-------------|------------------|-------------|-------------|--------------------|
| Valve Size | A | B | C | E | F | Top Plate Drilling | | | G | H | J | K | L | | Adapter Code | Weight (Kg) | | Bolt Circle | No of Holes | Threads ISO Coarse |
| | | | | | | BC | No of Holes | Hole Diameter | | | | | Wafer | Lug | | Wafer | Lug | | | |
| 50 | 98 | 43 | 51 | 140 | 90 | 70 | 4 | 10 | 14 | 10 | 32 | 29 | 56 | 58 | A | 3 | 3.5 | 121 | 4 | 5/8-11 |
| 65 | 111 | 46 | 64 | 152 | 90 | 70 | 4 | 10 | 14 | 10 | 32 | 45 | 63 | 63 | A | 3.5 | 4.5 | 140 | 4 | 5/8-11 |
| 80 | 127 | 46 | 76 | 159 | 90 | 70 | 4 | 10 | 14 | 10 | 32 | 62 | 71 | 71 | A | 4 | 5 | 152 | 4 | 5/8-11 |
| 100 | 159 | 52 | 102 | 178 | 90 | 70 | 4 | 10 | 16 | 11 | 32 | 88 | 90 | 104 | B | 6 | 8 | 191 | 8 | 5/8-11 |
| 125 | 187 | 56 | 127 | 190 | 90 | 70 | 4 | 10 | 19 | 13 | 32 | 115 | 109 | 117 | C | 7 | 10 | 216 | 8 | 3/4-10 |
| 150 | 216 | 56 | 146 | 203 | 90 | 70 | 4 | 10 | 19 | 13 | 32 | 136 | 121 | 129 | C | 9 | 13 | 241 | 8 | 3/4-10 |
| 200 | 270 | 60 | 197 | 241 | 150 | 125 | 4 | 14 | 22 | 16 | 32 | 189 | 153 | 155 | D | 17 | 23 | 298 | 8 | 3/4-10 |
| 250 | 324 | 68 | 248 | 273 | 150 | 125 | 4 | 14 | 30 | 22 | 51 | 239 | 188 | 195 | E | 28 | 34 | 362 | 12 | 7/8-9 |
| 300 | 378 | 78 | 298 | 311 | 150 | 125 | 4 | 14 | 30 | 22 | 51 | 289 | 214 | 229 | E | 34 | 53 | 432 | 12 | 7/8-9 |

Note: K dimension is disc chordal dimension at valve face.

Drawings are for reference only. Please refer to Bray ES drawings on the Bray website, www.bray.com. Bray reserves the right to change product dimensions without notice.

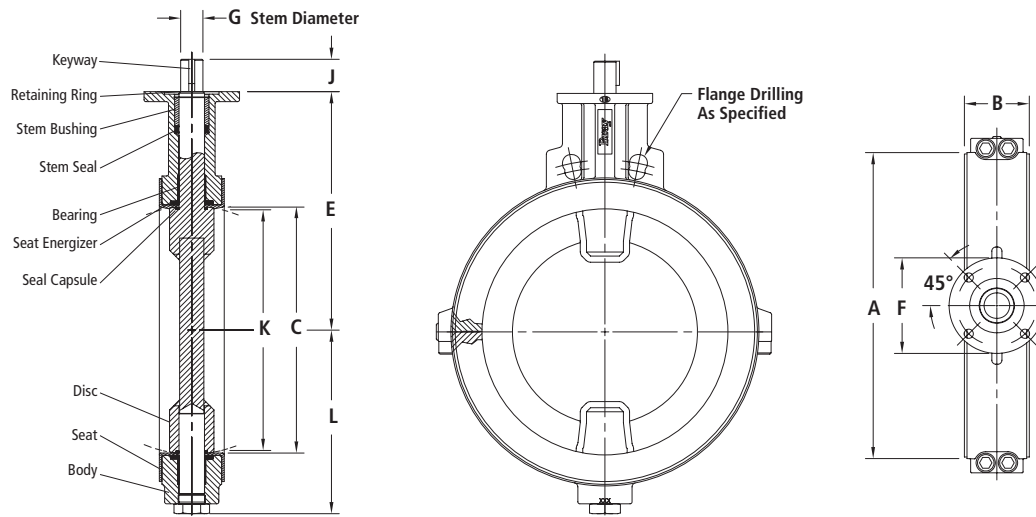
SR Drawing #22/23-2/12-in

Customer/Project: _____

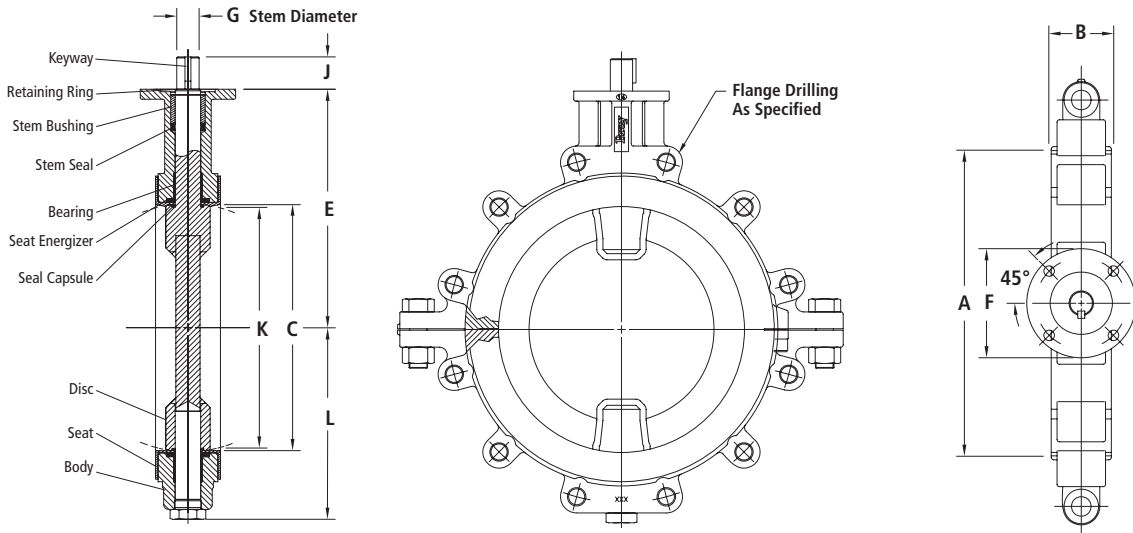
Inquire/P.O. No.: _____

Bray Order No.: _____

Series 22 Wafer



Series 23 Lug



| IMPERIAL DIMENSIONS: Inches | | | | | | | | | | | | | | | Lug Bolting Data | | | | | |
|-----------------------------|-------|------|-------|-------|------|--------------------|-------------|---------------|------|------|----------|-------|-------|-------|------------------|---------------|-----|-------------|-------------|--------------------|
| Valve Size | A | B | C | E | F | Top Plate Drilling | | | G | J | Key Size | K | L | | Adapter Code | Weight (lbs.) | | Bolt Circle | No of Holes | Threads ISO Coarse |
| | | | | | | BC | No of Holes | Hole Diameter | | | | | Wafer | Lug | | Wafer | Lug | | | |
| 14 | 17.05 | 3.07 | 13.25 | 13.62 | 5.91 | 4.92 | 4 | .57 | 1.38 | 2.00 | .39x.39 | 13.00 | 10.02 | 10.02 | F | 125 | 148 | 18.75 | 12 | 1-8 |
| 16 | 19.21 | 4.02 | 15.25 | 14.75 | 5.91 | 4.92 | 4 | .57 | 1.38 | 2.00 | .39x.39 | 14.75 | 11.99 | 11.99 | F | 180 | 218 | 21.25 | 16 | 1-8 |
| 18 | 21.12 | 4.49 | 17.25 | 16.00 | 8.27 | 6.50 | 4 | .81 | 1.97 | 2.50 | .39x.47 | 16.65 | 13.94 | 13.94 | G | 240 | 273 | 22.75 | 16 | 1 1/8-7 |
| 20 | 23.25 | 5.00 | 19.25 | 17.25 | 8.27 | 6.50 | 4 | .81 | 1.97 | 2.50 | .39x.47 | 18.73 | 14.94 | 14.94 | G | 320 | 368 | 25.00 | 20 | 1 1/8-7 |

Note: K dimension is disc chordal dimension at valve face.

| METRIC DIMENSIONS: Millimeters | | | | | | | | | | | | | | | Lug Bolting Data | | | | | |
|--------------------------------|-----|-----|-----|-----|-----|--------------------|-------------|---------------|----|----|----------|-----|-------|-----|------------------|-------------|-----|-------------|-------------|--------------------|
| Valve Size | A | B | C | E | F | Top Plate Drilling | | | G | J | Key Size | K | L | | Adapter Code | Weight (Kg) | | Bolt Circle | No of Holes | Threads ISO Coarse |
| | | | | | | BC | No of Holes | Hole Diameter | | | | | Wafer | Lug | | Wafer | Lug | | | |
| 350 | 433 | 78 | 337 | 346 | 150 | 125 | 4 | 14 | 35 | 51 | 10x10 | 330 | 255 | 255 | F | 57 | 67 | 476 | 12 | 1-8 |
| 400 | 488 | 102 | 387 | 375 | 150 | 125 | 4 | 14 | 35 | 51 | 10x10 | 375 | 305 | 305 | F | 82 | 99 | 540 | 16 | 1-8 |
| 450 | 536 | 114 | 438 | 406 | 210 | 165 | 4 | 21 | 50 | 64 | 10x12 | 423 | 354 | 354 | G | 109 | 124 | 578 | 16 | 1 1/8-7 |
| 500 | 591 | 127 | 489 | 438 | 210 | 165 | 4 | 21 | 50 | 64 | 10x12 | 476 | 379 | 379 | G | 145 | 167 | 635 | 20 | 1 1/8-7 |

Note: K dimension is disc chordal dimension at valve face.

Drawings are for reference only. Please refer to Bray ES drawings on the Bray website, www.bray.com. Bray reserves the right to change product dimensions without notice.

SR Drawing #22/23-14/20-in

Customer/Project: _____

Inquire/P.O. No.: _____

Bray Order No.: _____