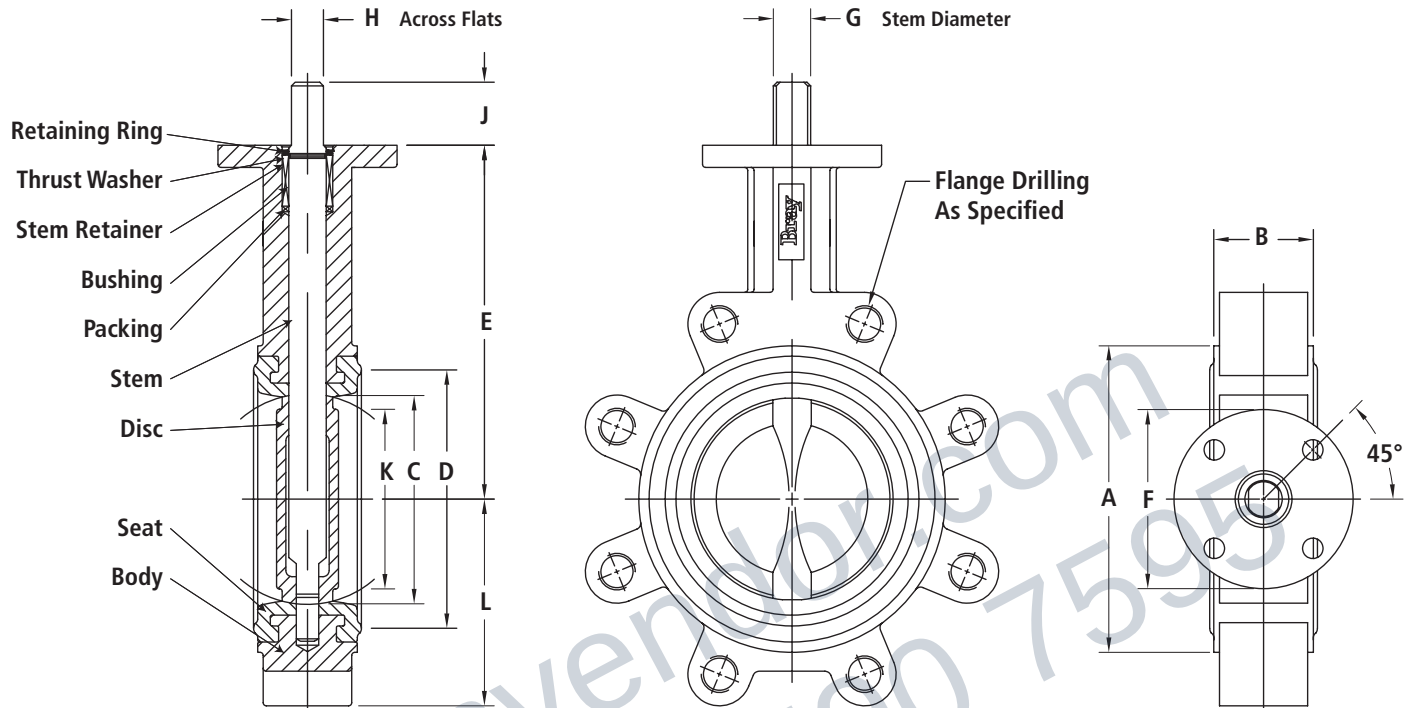


## Series 31H Lug



### IMPERIAL DIMENSIONS: Inches

| Valve Size | A     | B    | C     | D     | E     | F    | Top Plate Drilling |             |               | G    | H   | J    | K     | L    | Adapter Code | Weight (lbs) | Lug Bolting Data |             |                    |
|------------|-------|------|-------|-------|-------|------|--------------------|-------------|---------------|------|-----|------|-------|------|--------------|--------------|------------------|-------------|--------------------|
|            |       |      |       |       |       |      | BC                 | No of Holes | Hole Diameter |      |     |      |       |      |              |              | Bolt Circle      | No of Holes | Threads ISO Coarse |
| 2          | 3.69  | 1.62 | 2.00  | 2.84  | 5.50  | 3.54 | 2.76               | 4           | .39           | .55  | .39 | 1.25 | 1.32  | 2.30 | A            | 7.0          | 4.75             | 4           | 5/8-11             |
| 2½         | 4.19  | 1.75 | 2.50  | 3.34  | 6.00  | 3.54 | 2.76               | 4           | .39           | .55  | .39 | 1.25 | 1.91  | 2.57 | A            | 8.0          | 5.50             | 4           | 5/8-11             |
| 3          | 4.88  | 1.75 | 3.00  | 4.03  | 6.25  | 3.54 | 2.76               | 4           | .39           | .55  | .39 | 1.25 | 2.55  | 2.81 | A            | 9.0          | 6.00             | 4           | 5/8-11             |
| 4          | 6.06  | 2.00 | 4.00  | 5.16  | 7.00  | 3.54 | 2.76               | 4           | .39           | .63  | .43 | 1.25 | 3.57  | 4.09 | B            | 15.0         | 7.50             | 8           | 5/8-11             |
| 5          | 7.12  | 2.12 | 5.00  | 6.16  | 7.50  | 3.54 | 2.76               | 4           | .39           | .75  | .51 | 1.25 | 4.63  | 4.61 | C            | 20.0         | 8.50             | 8           | 3/4-10             |
| 6          | 8.12  | 2.12 | 5.75  | 7.02  | 8.00  | 3.54 | 2.76               | 4           | .39           | .75  | .51 | 1.25 | 5.45  | 5.06 | C            | 23.0         | 9.50             | 8           | 3/4-10             |
| 8          | 10.50 | 2.50 | 7.75  | 9.47  | 9.50  | 5.91 | 4.92               | 4           | .57           | .87  | .63 | 1.25 | 7.45  | 6.05 | D            | 42.0         | 11.75            | 8           | 3/4-10             |
| 10         | 12.75 | 2.50 | 9.75  | 11.47 | 10.72 | 5.91 | 4.92               | 4           | .57           | 1.18 | .87 | 2.00 | 9.53  | 7.69 | E            | 66.0         | 14.25            | 12          | 7/8-9              |
| 12         | 14.88 | 3.00 | 11.75 | 13.47 | 12.25 | 5.91 | 4.92               | 4           | .57           | 1.18 | .87 | 2.00 | 11.47 | 9.02 | E            | 88.0         | 17.00            | 12          | 7/8-9              |

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

### METRIC DIMENSIONS: Millimeters

| Valve Size | A   | B    | C   | D   | E   | F   | Top Plate Drilling |             |               | G  | H  | J  | K   | L   | Adapter Code | Weight (Kg) | Lug Bolting Data |             |                    |
|------------|-----|------|-----|-----|-----|-----|--------------------|-------------|---------------|----|----|----|-----|-----|--------------|-------------|------------------|-------------|--------------------|
|            |     |      |     |     |     |     | BC                 | No of Holes | Hole Diameter |    |    |    |     |     |              |             | Bolt Circle      | No of Holes | Threads ISO Coarse |
| 50         | 94  | 41.2 | 51  | 72  | 140 | 90  | 70                 | 4           | 10            | 14 | 10 | 32 | 34  | 58  | A            | 3           | 121              | 4           | 5/8-11             |
| 65         | 106 | 44.5 | 64  | 85  | 152 | 90  | 70                 | 4           | 10            | 14 | 10 | 32 | 49  | 65  | A            | 3.6         | 140              | 4           | 5/8-11             |
| 80         | 124 | 44.5 | 76  | 102 | 159 | 90  | 70                 | 4           | 10            | 14 | 10 | 32 | 65  | 71  | A            | 4.1         | 152              | 4           | 5/8-11             |
| 100        | 154 | 50.8 | 102 | 131 | 178 | 90  | 70                 | 4           | 10            | 16 | 11 | 32 | 91  | 104 | B            | 7           | 191              | 8           | 5/8-11             |
| 125        | 181 | 54.0 | 127 | 156 | 191 | 90  | 70                 | 4           | 10            | 19 | 13 | 32 | 118 | 117 | C            | 9           | 216              | 8           | 3/4-10             |
| 150        | 206 | 54.0 | 146 | 178 | 203 | 90  | 70                 | 4           | 10            | 19 | 13 | 32 | 138 | 129 | C            | 10          | 241              | 8           | 3/4-10             |
| 200        | 267 | 63.5 | 197 | 241 | 241 | 150 | 125                | 4           | 14            | 22 | 16 | 32 | 189 | 154 | D            | 19          | 298              | 8           | 3/4-10             |
| 250        | 324 | 63.5 | 248 | 291 | 272 | 150 | 125                | 4           | 14            | 30 | 22 | 51 | 242 | 195 | E            | 30          | 362              | 12          | 7/8-9              |
| 300        | 378 | 76.2 | 298 | 342 | 311 | 150 | 125                | 4           | 14            | 30 | 22 | 51 | 291 | 229 | E            | 40          | 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](http://www.bray.com). Bray reserves the right to change product dimensions without notice.

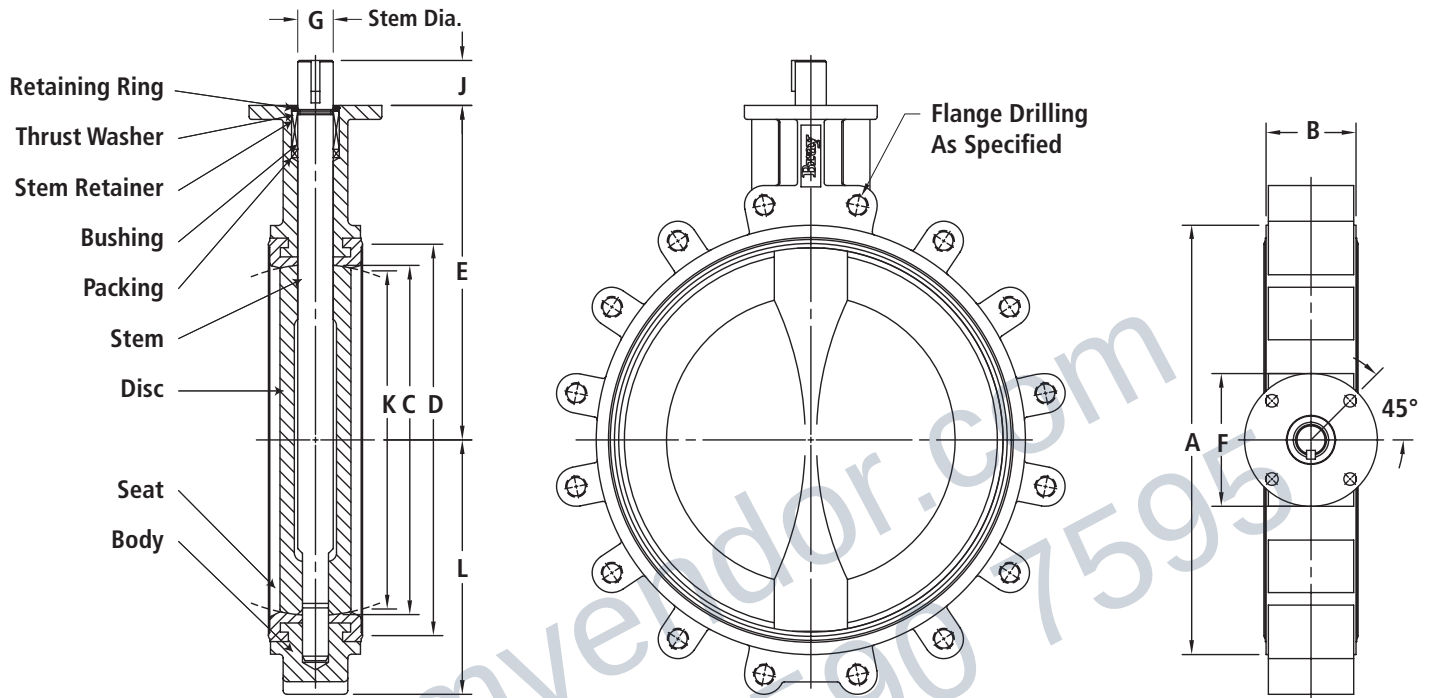
## SR Drawing #31H-2/12-in

Customer/Project: \_\_\_\_\_

Inquire/P.O. No.: \_\_\_\_\_

Bray Order No.: \_\_\_\_\_

## Series 31H Lug



### IMPERIAL DIMENSIONS: Inches

| Valve Size | A     | B    | C     | D     | 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 |      |      |          |       |       |              |              |             |             |                    |
| 14         | 16.94 | 3.00 | 13.25 | 15.28 | 13.62 | 5.91 | 4.92               | 4           | .57           | 1.38 | 2.00 | .39x.39  | 13.04 | 9.93  | F            | 114          | 18.75       | 12          | 1-8                |
| 16         | 19.06 | 4.00 | 15.25 | 17.41 | 14.75 | 5.91 | 4.92               | 4           | .57           | 1.38 | 2.00 | .39x.39  | 14.85 | 11.30 | F            | 166          | 21.25       | 16          | 1-8                |
| 18         | 21.12 | 4.25 | 17.25 | 19.47 | 16.00 | 8.27 | 6.50               | 4           | .81           | 1.97 | 2.50 | .47x.39  | 16.85 | 12.16 | G            | 226          | 22.75       | 16          | 1½-7               |
| 20         | 23.25 | 5.00 | 19.25 | 21.59 | 17.25 | 8.27 | 6.50               | 4           | .81           | 1.97 | 2.50 | .47x.39  | 18.73 | 14.00 | G            | 305          | 25.00       | 20          | 1½-7               |

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

### METRIC DIMENSIONS: Millimeters

| Valve Size | A   | B     | C   | D   | 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 |    |    |          |     |     |              |             |             |             |                    |
| 350        | 430 | 76.2  | 337 | 388 | 346 | 150 | 125                | 4           | 14            | 35 | 51 | 10x10    | 331 | 252 | F            | 52          | 476         | 12          | 1-8                |
| 400        | 484 | 101.6 | 387 | 442 | 375 | 150 | 125                | 4           | 14            | 35 | 51 | 10x10    | 377 | 287 | F            | 75          | 540         | 16          | 1-8                |
| 450        | 536 | 108.0 | 438 | 495 | 406 | 210 | 165                | 4           | 21            | 50 | 64 | 12x10    | 428 | 309 | G            | 103         | 578         | 16          | 1½-7               |
| 500        | 591 | 127.0 | 489 | 548 | 438 | 210 | 165                | 4           | 21            | 50 | 64 | 12x10    | 476 | 356 | G            | 138         | 635         | 20          | 1½-7               |

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](http://www.bray.com). Bray reserves the right to change product dimensions without notice.

Inquire/P.O. No.: \_\_\_\_\_

Bray Order No.: \_\_\_\_\_

SR Drawing #31H-14/20-in

Customer/Project: \_\_\_\_\_