

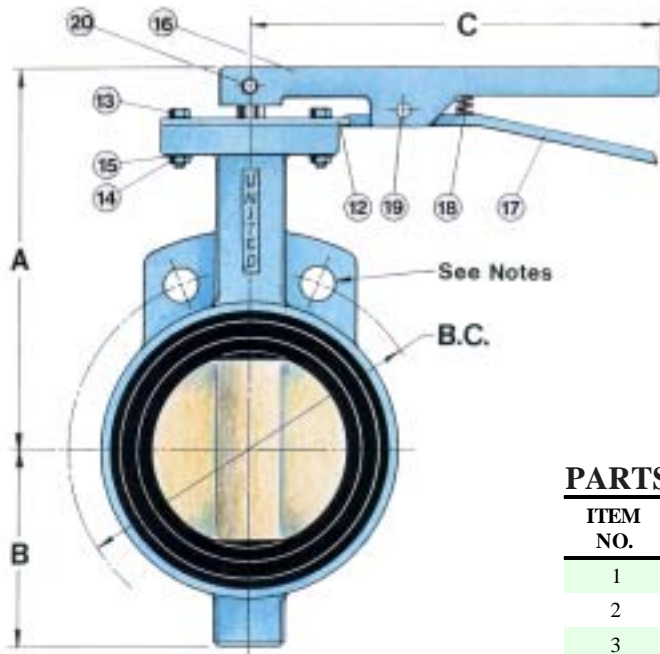
WAFER TYPE BUTTERFLY VALVE

SIZES 2" - 12"

200 psi WP, - 20° F to 200° F
50 psi WP, to 275° F
EPDM Liner
Model 220E, with DI Electroplated Disc
Model 221E, with Stainless Steel Disc
Model 222E, with Bronze Disc

200 psi WP, 40° F to 180° F
BUNA N Liner
Model 220 B, with DI Electroplated Disc
Model 221 B, With Stainless Steel Disc
Model 222 B, with Bronze Disc

UNITED BRAND

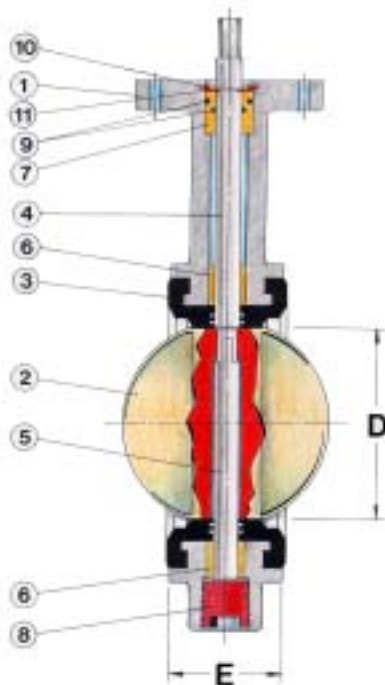
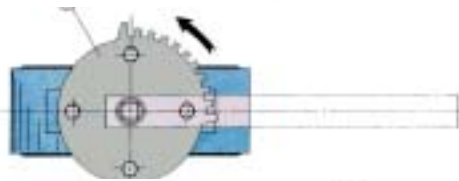


DIMENSIONS IN INCHES - WEIGHT IN LBS.

| SIZE | A | B | C | D | E | B.C. | Wt. |
|-------|-------|------|-------|-------|------|--------|-----|
| 2 | 7.60 | 3.15 | 9.92 | 1.91 | 1.68 | 4 3/4 | 6 |
| 2 1/2 | 8.13 | 3.58 | 9.92 | 2.52 | 1.73 | 5 1/2 | 7 |
| 3 | 8.39 | 3.70 | 9.92 | 2.98 | 1.77 | 6 | 10 |
| 4 | 9.13 | 4.49 | 10.35 | 3.66 | 2.05 | 7 1/2 | 13 |
| 5 | 9.70 | 5.22 | 10.35 | 4.69 | 2.14 | 8 1/2 | 18 |
| 6 | 10.16 | 5.47 | 10.35 | 5.55 | 2.20 | 9 1/2 | 20 |
| 8 | 10.75 | 6.89 | 14.02 | 7.58 | 2.39 | 11 3/4 | 32 |
| 10 | 12.91 | 7.83 | 16.30 | 9.41 | 2.58 | 14 1/4 | 42 |
| 12 | 14.48 | 9.21 | 16.30 | 11.34 | 3.03 | 17 | 70 |

PARTS LIST

| ITEM NO. | QTY. | PART | MATERIAL |
|----------|------|------------------|------------------------------|
| 1 | 1 | BODY | ASTM A126, Class B |
| 2 | 1 | DISC | NICKEL P.L/DI/SS/ALUM. BRZ. |
| 3 | 1 | SEAT | EPDM/NBR |
| 4 | 1 | SHAFT, UPPER | ASTM A27 Type 416 |
| 5 | 1 | SHAFT, LOWER | ASTM A27 Type 416 |
| 6 | 2 | BODY BUSHING | LUBRICATED BRONZE |
| 7 | 1 | SHAFT BUSHING | LUBRICATED BRONZE |
| 8 | 1 | PLUG | STEEL |
| 9 | 2 | O-RING DIRT SEAL | NBR |
| 10 | 1 | SNAP RING | SPRING STEEL |
| 11 | 2 | LOCK PLATE | BRASS |
| 12 | 1 | INDICATOR PLATE | STEEL |
| 13 | 4 | HEX HEAD SCREW | STEEL |
| 14 | 4 | NUT | STEEL |
| 15 | 4 | LOCKWASHER | STEEL |
| 16 | 1 | HANDLE | DUCTILE IRON |
| 17 | 1 | LEVER | CAST IRON ASTM A126, CLASS B |
| 18 | 1 | LEVER SPRING | STAINLESS STEEL |
| 19 | 1 | LEVER PIN | STEEL |
| 20 | 1 | SHAFT PIN | MILD STEEL |



Valves are designed for installation between Class 125 flat faced iron flanges, Class 150 raised steel flanges; and socket weld, slip-on and lap joint flanges meeting ANSI standards.

TEST SCHEDULE:

220 psi Hydrostatic Seat Test
300 psi Hydrostatic Shell Test

Design and materials are subject to change without notice.

NAPAC, Inc.

229 Southbridge Street, Worcester, MA 01608 U.S.A.

Tel: (800) 807-2215 • Fax: (800) 807-2214

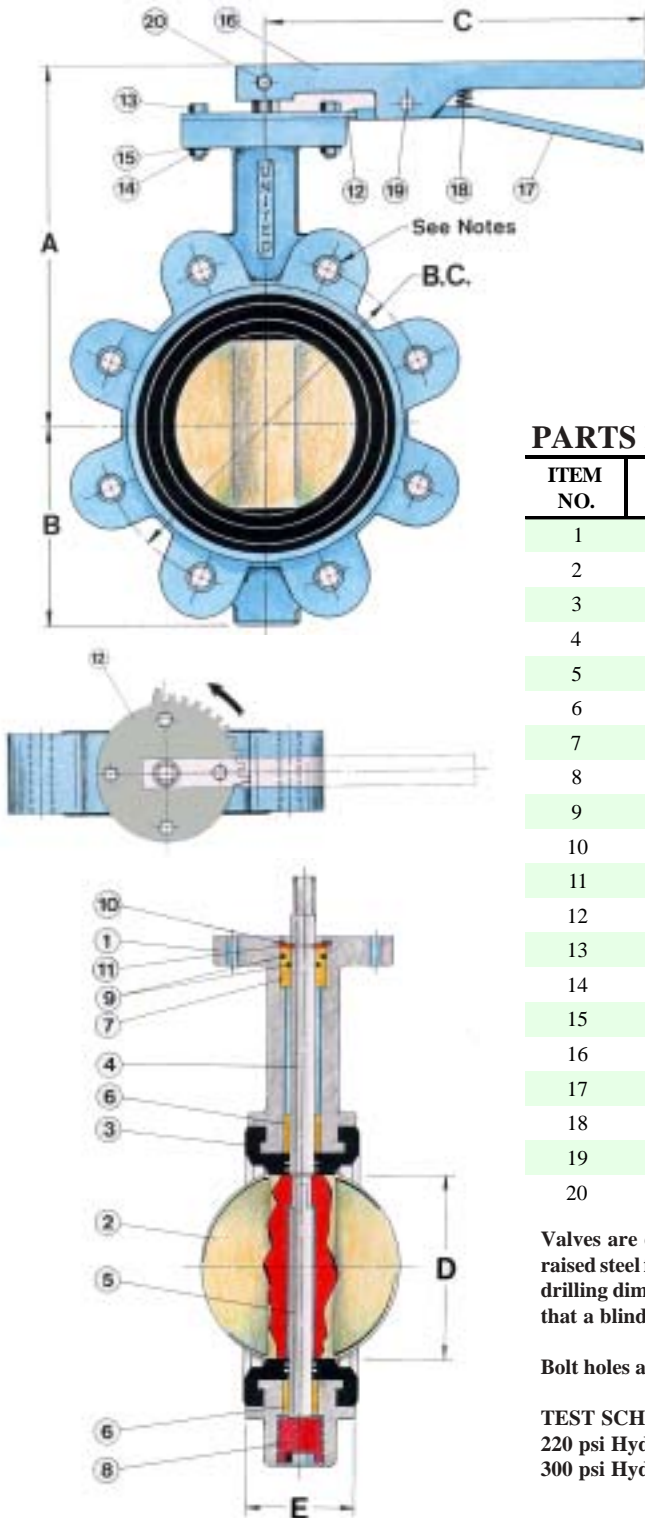
LUG TYPE BUTTERFLY VALVE

SIZES 2" - 12"

200 psi WP, -20°F to 200°F
 50 psi WP, to 275°F
 EPDM Liner
 Model 220 E, with DI Electroplated Disc
 Model 231 E, with Stainless Steel Disc
 Model 232 E, with Bronze Disc

200 psi WP, 40°F to 180°F
 BUNA N Liner
 Model 230 B, with DI Electroplated Disc
 Model 231 B, with Stainless Steel Disc
 Model 232 B, with Bronze Disc

UNITED BRAND



DIMENSIONS IN INCHES - WEIGHT IN LBS.

| SIZE | A | B | C | D | E | B.C. | Wt. |
|-------|-------|------|-------|-------|------|--------|-----|
| 2 | 6.77 | 3.15 | 9.92 | 1.91 | 1.68 | 4 3/4 | 7 |
| 2 1/2 | 7.20 | 3.03 | 9.92 | 2.52 | 1.73 | 5 1/2 | 8 |
| 3 | 7.56 | 3.35 | 9.92 | 2.98 | 1.77 | 6 | 14 |
| 4 | 8.39 | 3.94 | 10.35 | 3.66 | 2.05 | 7 1/2 | 26 |
| 5 | 8.78 | 4.72 | 10.35 | 4.69 | 2.14 | 8 1/2 | 28 |
| 6 | 9.25 | 5.20 | 10.35 | 5.55 | 2.20 | 9 1/2 | 31 |
| 8 | 10.75 | 6.29 | 14.02 | 7.58 | 2.39 | 11 3/4 | 49 |
| 10 | 12.05 | 7.95 | 16.30 | 9.41 | 2.58 | 14 1/4 | 72 |
| 12 | 13.66 | 9.06 | 16.30 | 11.34 | 3.03 | 17 | 105 |

PARTS LIST

| ITEM NO. | QTY. | PART | MATERIAL |
|----------|------|------------------|-----------------------------|
| 1 | 1 | BODY | ASTM A126, Class B |
| 2 | 1 | DISC | NICKEL PL/DI/SS/ALUM. BRZ. |
| 3 | 1 | SEAT | EPDM/NBR |
| 4 | 1 | SHAFT, UPPER | ASTM A27 Type 416 |
| 5 | 1 | SHAFT, LOWER | ASTM A27 Type 416 |
| 6 | 2 | BODY BUSHING | LUBRICATED BRONZE |
| 7 | 1 | SHAFT BUSHING | LUBRICATED BRONZE |
| 8 | 1 | PLUG | STEEL |
| 9 | 2 | O-RING DIRT SEAL | NBR |
| 10 | 1 | SNAP RING | SPRING STEEL |
| 11 | 2 | LOCK PLATE | BRASS |
| 12 | 1 | INDICATOR PLATE | STEEL |
| 13 | 4 | HEX HEAD SCREW | STEEL |
| 14 | 4 | NUT | STEEL |
| 15 | 4 | LOCKWASHER | STEEL |
| 16 | 1 | HANDLE | DUCTILE IRON |
| 17 | 1 | LEVER | CAST IRON ASTM A126 CLASS B |
| 18 | 1 | LEVER SPRING | STAINLESS STEEL |
| 19 | 1 | LEVER PIN | STEEL |
| 20 | 1 | SHAFT PIN | MILD STEEL |

Valves are designed for installation between Class 125 flat faced iron flanges, Class 150 raised steel flanges meeting ANSI standards. Lug holes, UNC threaded, follow ANSI flange drilling dimensions. For safe system operation in terminal applications, it is recommended that a blind flange be bolted to the downstream side of the valve.

Bolt holes are tapped for use with stud bolts and threaded in accordance with ANSI B 1.1

TEST SCHEDULE:

220 psi Hydrostatic Seat Test
 300 psi Hydrostatic Shell Test

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