

# FIGURE 500B STAINLESS STEEL BALL VALVES

**FNW**

1 PC STANDARD PORT 150# FLANGED

## FEATURES

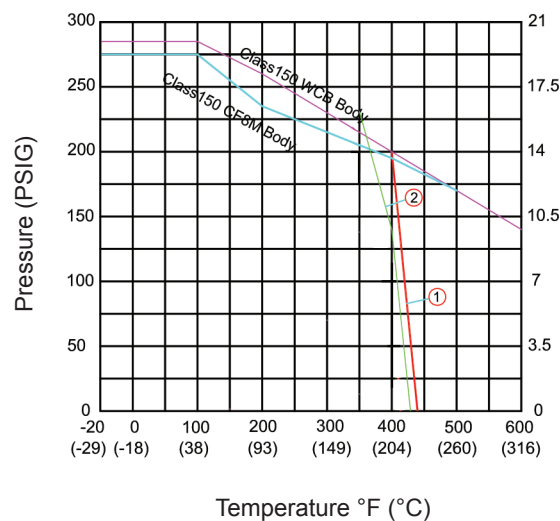
- Standard port
- 150 WSP
- Flanged connection
- TFM 1600 + 20% GF seats
- Stainless steel trim
- Anti-static design
- Blowout-proof stem
- Investment cast body
- Adjustable packing
- Locking device
- Actuator mounting pad
- Manufactured silicone free
- Sizes 2" – 6"



## PRODUCT SPECIFICATIONS

### Standards

- Design: ASME B16.34
- Pressure Test: API 598
- Flange Dimensions: ASME B16.5
- Materials: ASME B16.34
- Mounting Pad: ISO 5211
- NACE MR0103 and MR0175 compliant



- ① • NPS 2" to NPS 2-1/2"  
• 200 psig at 400°F
- ② • NPS 3" to NPS 6"  
• 140 psig at 400°F

## FIGURE NUMBER MATRIX

| FNW 500B | Size              |
|----------|-------------------|
|          | Size Code         |
|          | K = 2" P = 4"     |
|          | L = 2-1/2" U = 6" |
|          | M = 3"            |

## REPAIR KITS (ORDER SEPARATELY)

| FNW 500BRKTFM | Size              |
|---------------|-------------------|
|               | Size Code         |
|               | K = 2" P = 4"     |
|               | L = 2-1/2" U = 6" |
|               | M = 3"            |

## CV & WEIGHT TORQUE (IN-LBS)

| Size   | Cv   | Wt (lbs) | Size/ΔP | 75 psig | 150 psig | 300 psig |
|--------|------|----------|---------|---------|----------|----------|
| 2"     | 270  | 14.63    | 2"      | 5 Bar   | 10 Bar   | 20 Bar   |
| 2-1/2" | 470  | 23.14    | 2-1/2"  | 221     | 221      | 248      |
| 3"     | 690  | 31.9     | 3"      | 319     | 319      | 354      |
| 4"     | 1150 | 49.5     | 4"      | 513     | 513      | 540      |
| 6"     | 2100 | 99.2     | 6"      | 761     | 779      | 876      |
|        |      |          |         | 1381    | 1416     | 1522     |

**Note:** 30% safety factor is recommended when sizing actuator.

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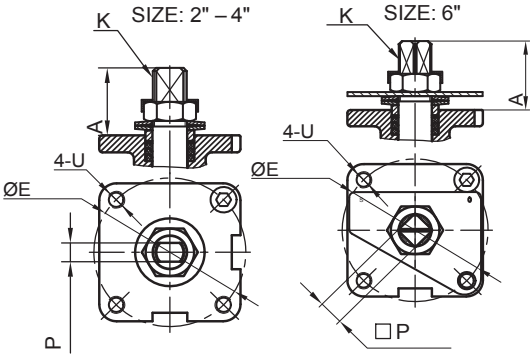
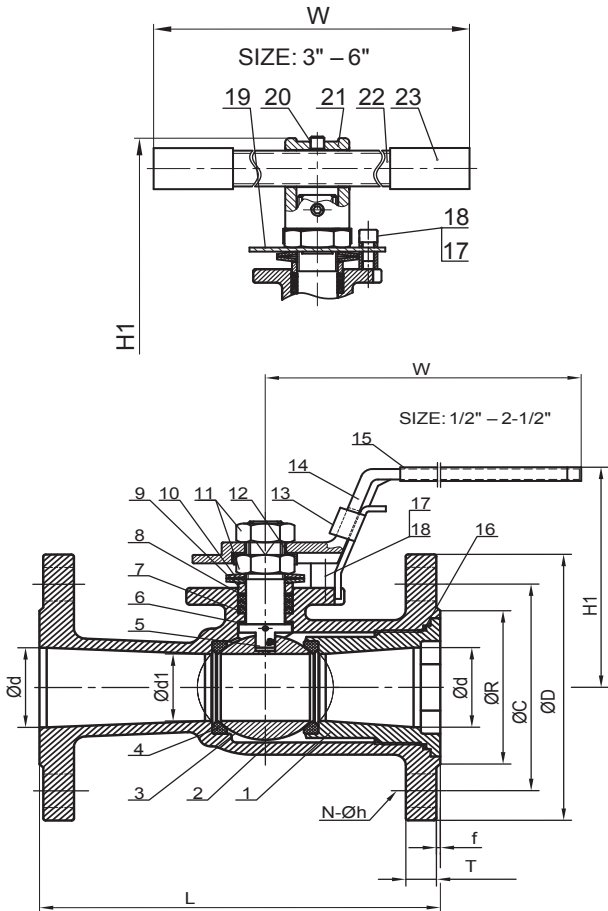
FIGURE 500B  
STAINLESS STEEL BALL VALVES



1 PC STANDARD PORT 150# FLANGED

STANDARD MATERIALS

| Ref # | Description                 | Material         |
|-------|-----------------------------|------------------|
| 1     | End Cap                     | CF8M             |
| 2     | Body                        | CF8M             |
| 3     | Ball                        | CF8M             |
| 4     | Ball Seat                   | TFM1600+20% GF   |
| 5     | Stem (Anti-Static Device)   | 316              |
| 6     | Thrust Washer               | TFM4215          |
| 7     | Packing                     | TFM1600          |
| 8     | Bushing                     | 50% SS +50% PTFE |
| 9     | Gland                       | 316              |
| 10    | Belleville Washer           | 301              |
| 11    | Stem Nut                    | A194-8           |
| 12    | Stop-Lock-Cap               | 304              |
| 13    | Lock Device (1/2"-2-1/2")   | 304              |
| 14    | Handle (1/2"-2-1/2")        | CF8              |
| 15    | Handle Sleeve (1/2"-2-1/2") | Vinyl Plastic    |
| 16    | Body Gasket                 | PTFE             |
| 17    | Stop Bolt                   | A2-70            |
| 18    | Stop Washer                 | 304              |
| 19    | Triangle Stopper (3"-6")    | 304              |
| 20    | Set Screw (3"-6")           | A2-70            |
| 21    | Handle Adapter (3"-6")      | CF8              |
| 22    | Pipe Handle (3"-6")         | A53+Zn Plated    |
| 23    | Handle Sleeve (3"-6")       | Vinyl Plastic    |



DIMENSIONS

| Size   | d    | d1   | L    | R    | D    | C    | f    | T    | N | h   | H1   | W     | P     | K           | A    | U   | E    | ISO 5211 | Weight (lbs) |
|--------|------|------|------|------|------|------|------|------|---|-----|------|-------|-------|-------------|------|-----|------|----------|--------------|
| 2"     | 1.97 | 1.50 | 7.00 | 3.62 | 6.00 | 4.75 | 0.06 | 0.56 | 4 | 3/4 | 4.49 | 7.95  | 0.378 | 5/8-18UNF   | 1.26 | M8  | 2.76 | F07      | 14.63        |
| 2-1/2" | 2.44 | 1.97 | 7.50 | 4.12 | 7.00 | 5.50 | 0.06 | 0.62 | 4 | 3/4 | 5.22 | 9.92  | 0.630 | 7/8-14UNF   | 1.67 | M10 | 4.02 | F10      | 23.14        |
| 3"     | 2.99 | 2.38 | 8.00 | 5.00 | 7.50 | 6.00 | 0.06 | 0.69 | 4 | 3/4 | 6.20 | 11.9  | 0.630 | 7/8-14UNF   | 1.67 | M10 | 4.02 | F10      | 31.9         |
| 4"     | 3.86 | 2.99 | 9.00 | 6.19 | 9.00 | 7.50 | 0.06 | 0.88 | 8 | 3/4 | 7.52 | 15.9  | 0.709 | 1-1/8-12UNF | 2.17 | M10 | 4.02 | F10      | 49.5         |
| 6"     | 5.75 | 3.94 | 10.5 | 8.50 | 11.0 | 9.50 | 0.06 | 0.94 | 8 | 7/8 | 9.25 | 23.75 | 1.063 | 1-3/8-12UNF | 2.20 | M12 | 4.92 | F12      | 99.2         |