

Figure 310AM STAINLESS STEEL BALL VALVES



3 PC FULL PORT 1000 CWP w/ ISO MOUNTING PAD

Features:

- 1000 PSI CWP Non-Shock
- 150 PSI WSP
- Full Port
- Blow-out Proof Stem
- Live-Loaded Packing
- Anti-static Design
- Investment Cast Body
- RTFE Seats
- End Connections
 - Threaded
 - Socket Weld
- 4" With Handle Standard (Lock-out Style)
- Direct Mounting Pad
- Vacuum rated to 26.967"Hg (75 Torr)*
- Vented Ball
- Manufactured Silicone Free

Standards:

- Design: ASME B16.34, MSS SP-110
- End Connections:
 - NPT - ASME B1.20.1
 - SW - ASME B16.11
- Mounting Pad: ISO 5211
- Seat/Shell Test: MSS SP-110

* Vacuum measurements are often made in inches of mercury below atmospheric pressure. The values calculated here assume standard atmospheric pressure of 29.92 inches of mercury.

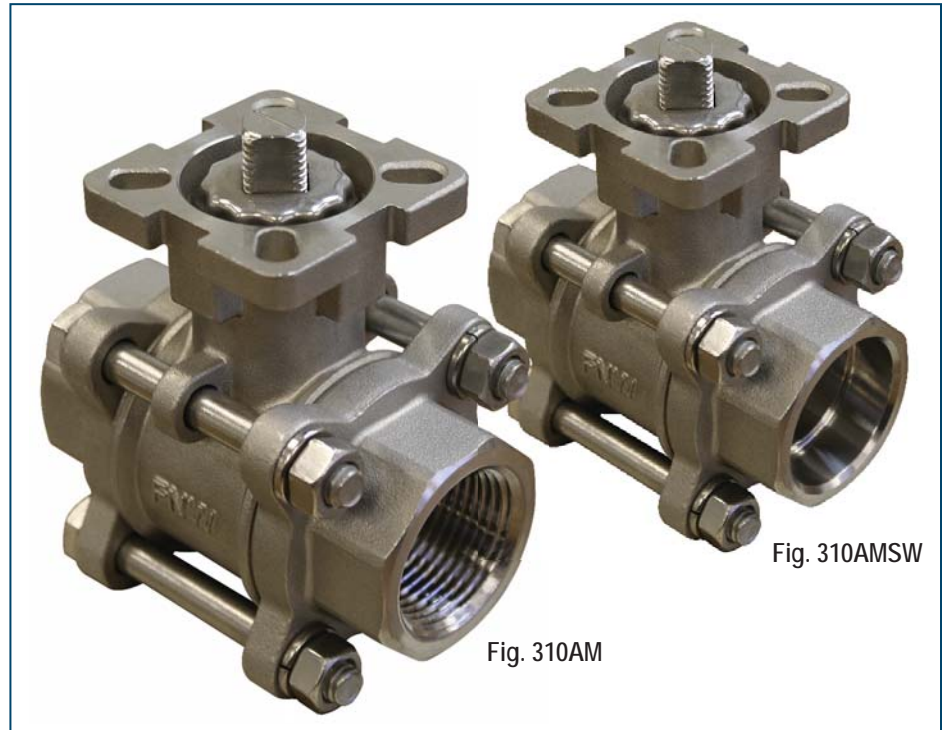
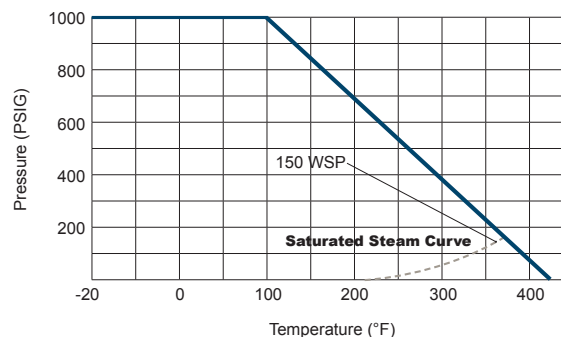


Fig. 310AMSW

Fig. 310AM



4" with Handle - Standard

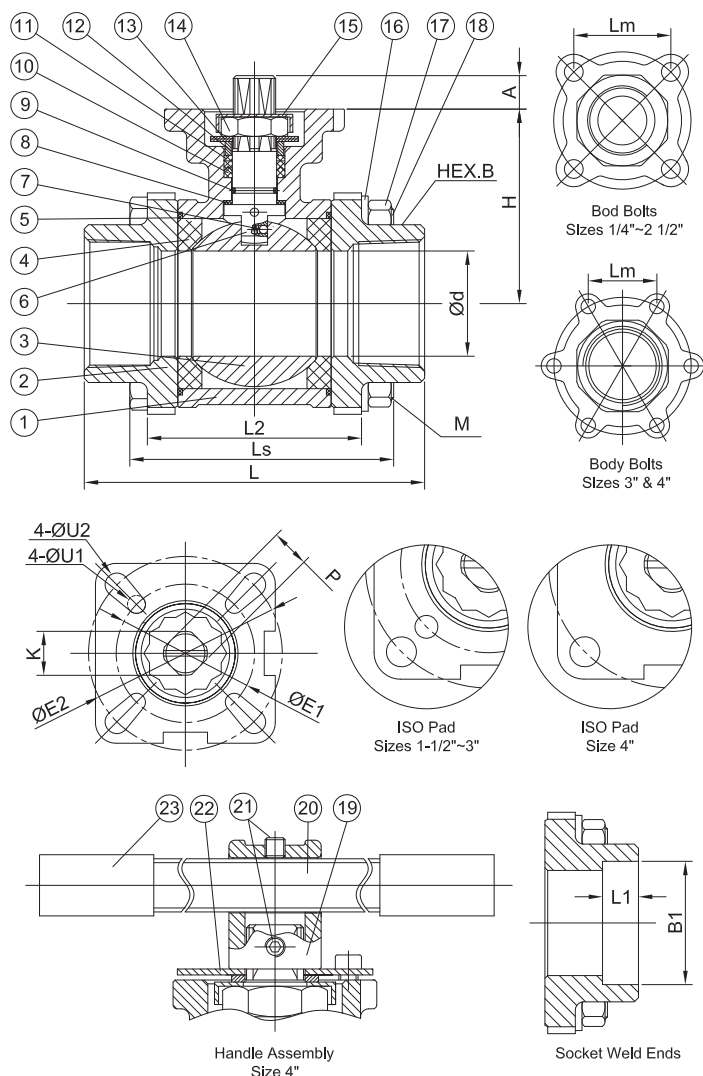
Cv, Torque & Weight

| Size | Cv | Torque (in-lbs) | Wt (lbs) |
|-------|------|-----------------|----------|
| 1/4 | 15 | 60 | 1.01 |
| 3/8 | 15 | 60 | 1.03 |
| 1/2 | 18 | 66 | 1.05 |
| 3/4 | 36 | 80 | 1.73 |
| 1 | 48 | 146 | 2.33 |
| 1-1/4 | 58 | 242 | 4.30 |
| 1-1/2 | 120 | 344 | 5.21 |
| 2 | 190 | 503 | 9.09 |
| 2-1/2 | 450 | 631 | 17.31 |
| 3 | 600 | 1337 | 24.36 |
| 4 | 1100 | 1959 | 51.00 |

Figure Number Matrix

| FNW 310AM | | | |
|--|---------|-----------|-----------|
| Ends | | Size | |
| END CODE | | SIZE CODE | |
| Blank = Threaded NPT SW = Socket Weld | 1/4 = B | 1 = G | 2-1/2 = L |
| | 3/8 = C | 1-1/4 = H | 3 = M |
| | 1/2 = D | 1-1/2 = J | 4 = P |
| | 3/4 = F | 2 = K | |

3 PC FULL PORT 1000 CWP



Standard Materials

| Ref. No. | Description | Material | Qty |
|----------|---------------------|-------------------------------------|-------|
| 1 | Body | ASTM A351 Gr. CF8M Stainless | 1 |
| 2 | End Cap | NPT ASTM A351 Gr. CF8M Stainless | 2 |
| | | SW ASTM A351 Gr. CF3M Stainless | |
| 3 | Ball | 316SS Stainless | 1 |
| 4 | Seat | RTFE | 2 |
| 5 | Body Gasket | PTFE | 2 |
| 6 | Stem | 316SS Stainless | 1 |
| 7 | Anti-Static Device | 316SS Stainless | 2 |
| 8 | Thrust Washer | PTFE | 1 |
| 9 | O-Ring | FKM | 1 |
| 10 | V-Ring Packing | PTFE | 1 Set |
| 11 | Bushing | 50% Stainless + 50% PTFE | 1 |
| 12 | Gland | 316SS Stainless | 1 |
| 13 | Belleville Washer | 301SS Stainless | 2 |
| 14 | Stem Nut | ASTM A194-8 Stainless | 1 |
| 15 | Stop-Lock-Cap | 304SS Stainless | 1 |
| 16 | Bolt Washer | 1/4"~2" | 4 |
| | | 2-1/2" | 8 |
| | | 3"~4" | 12 |
| 17 | Bolt Nut | 1/4"~2" | 4 |
| | | 2-1/2" | 8 |
| | | 3"~4" | 12 |
| 18 | Body Bolt | 1/4"~3" | 4 |
| | | 4" | 6 |
| 19 | Handle Adapter 4" | ASTM A351 Gr. CF8 Stainless | 1 |
| 20 | Pipe Handle 4" | ASTM A53 Steel + Zinc Plating | 1 |
| 21 | Set Screw 4" | ASTM A193-B8 Stainless | 1 |
| 22 | Triangle Stopper 4" | 420SS Stainless | 1 |
| 23 | Handle Sleeve 4" | Vinyl Plastic | 1 |

Dimensions (inches)

| SIZE | Ød | L | Lm | H | P | A | ØE1 | ØE2 | U1 | U2 | K (UNF) | Ls | L2 | M (UNC) | B | L1 | ØB1 |
|-------|------|------|------|------|------|------|------|------|------|------|----------|------|------|---------|------|------|------|
| 1/4 | 0.42 | 2.95 | 1.30 | 1.65 | 0.35 | 0.35 | 1.42 | 1.65 | 0.24 | 0.24 | 7/16-20 | 2.23 | 1.71 | 1/4-20 | 1.10 | 0.39 | 0.56 |
| 3/8 | 0.50 | 2.95 | 1.30 | 1.65 | 0.35 | 0.35 | 1.42 | 1.65 | 0.24 | 0.24 | 7/16-20 | 2.23 | 1.71 | 1/4-20 | 1.10 | 0.39 | 0.70 |
| 1/2 | 0.59 | 2.95 | 1.30 | 1.65 | 0.35 | 0.35 | 1.42 | 1.65 | 0.24 | 0.24 | 7/16-20 | 2.23 | 1.71 | 1/4-20 | 1.10 | 0.39 | 0.86 |
| 3/4 | 0.79 | 3.15 | 1.52 | 1.91 | 0.35 | 0.35 | 1.42 | 1.97 | 0.24 | 0.28 | 7/16-20 | 2.44 | 1.82 | 5/16-18 | 1.36 | 0.51 | 1.07 |
| 1 | 0.98 | 3.54 | 1.76 | 2.30 | 0.43 | 0.43 | 1.65 | 1.97 | 0.24 | 0.28 | 9/16-18 | 2.79 | 2.10 | 5/16-18 | 1.65 | 0.51 | 1.34 |
| 1-1/4 | 1.26 | 4.33 | 2.13 | 2.48 | 0.43 | 0.43 | 1.65 | 2.76 | 0.24 | 0.35 | 9/16-18 | 3.37 | 2.68 | 3/8-16 | 2.05 | 0.63 | 1.69 |
| 1-1/2 | 1.50 | 4.72 | 2.42 | 2.81 | 0.55 | 0.55 | 1.97 | 2.76 | 0.28 | 0.35 | 3/4-16 | 3.81 | 3.05 | 3/8-16 | 2.30 | 0.63 | 1.93 |
| 2 | 1.97 | 5.51 | 2.95 | 3.08 | 0.55 | 0.55 | 1.97 | 2.76 | 0.28 | 0.35 | 3/4-16 | 4.36 | 3.59 | 3/8-16 | 2.81 | 0.67 | 2.42 |
| 2-1/2 | 2.50 | 7.28 | 3.62 | 3.94 | 0.67 | 0.67 | 2.76 | 4.02 | 0.35 | 0.43 | 7/8-14 | 5.75 | 4.36 | 9/16-12 | 3.41 | 0.67 | 2.91 |
| 3 | 2.99 | 8.07 | 2.93 | 4.27 | 0.67 | 0.67 | 2.76 | 4.02 | 0.35 | 0.43 | 7/8-14 | 6.34 | 4.93 | 9/16-12 | 3.98 | 0.67 | 3.54 |
| 4 | 3.95 | 9.45 | 3.76 | 5.51 | 0.87 | 0.87 | | 4.02 | | 0.43 | 1-1/8-12 | 7.87 | 6.26 | 5/8-11 | 5.20 | 0.79 | 4.53 |

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