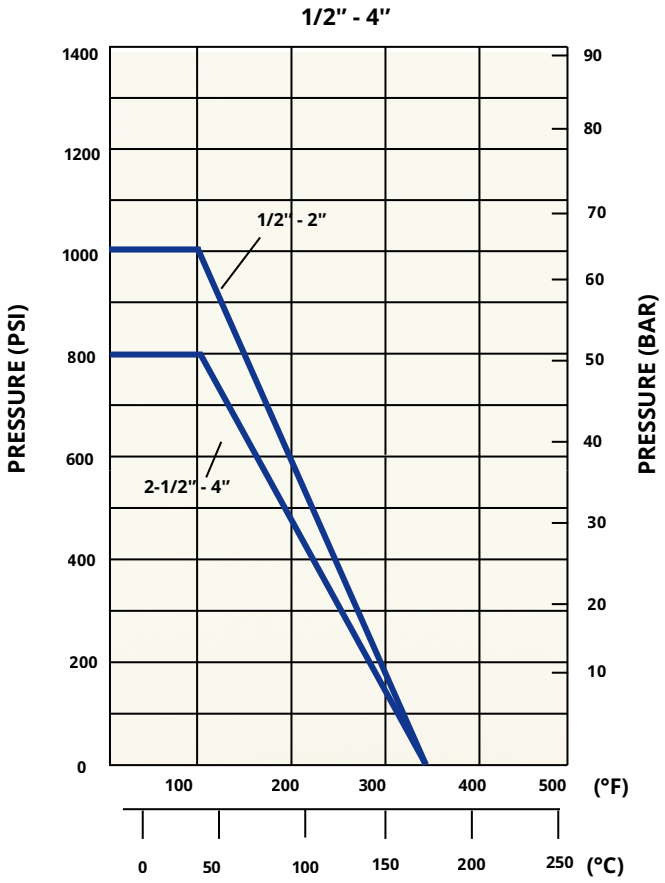
Haleson

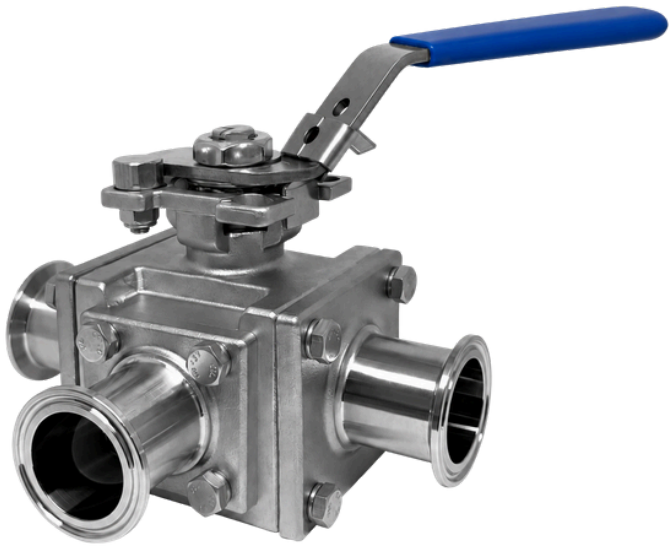
# V3X Sanitary Ball Valve

## Technical Data

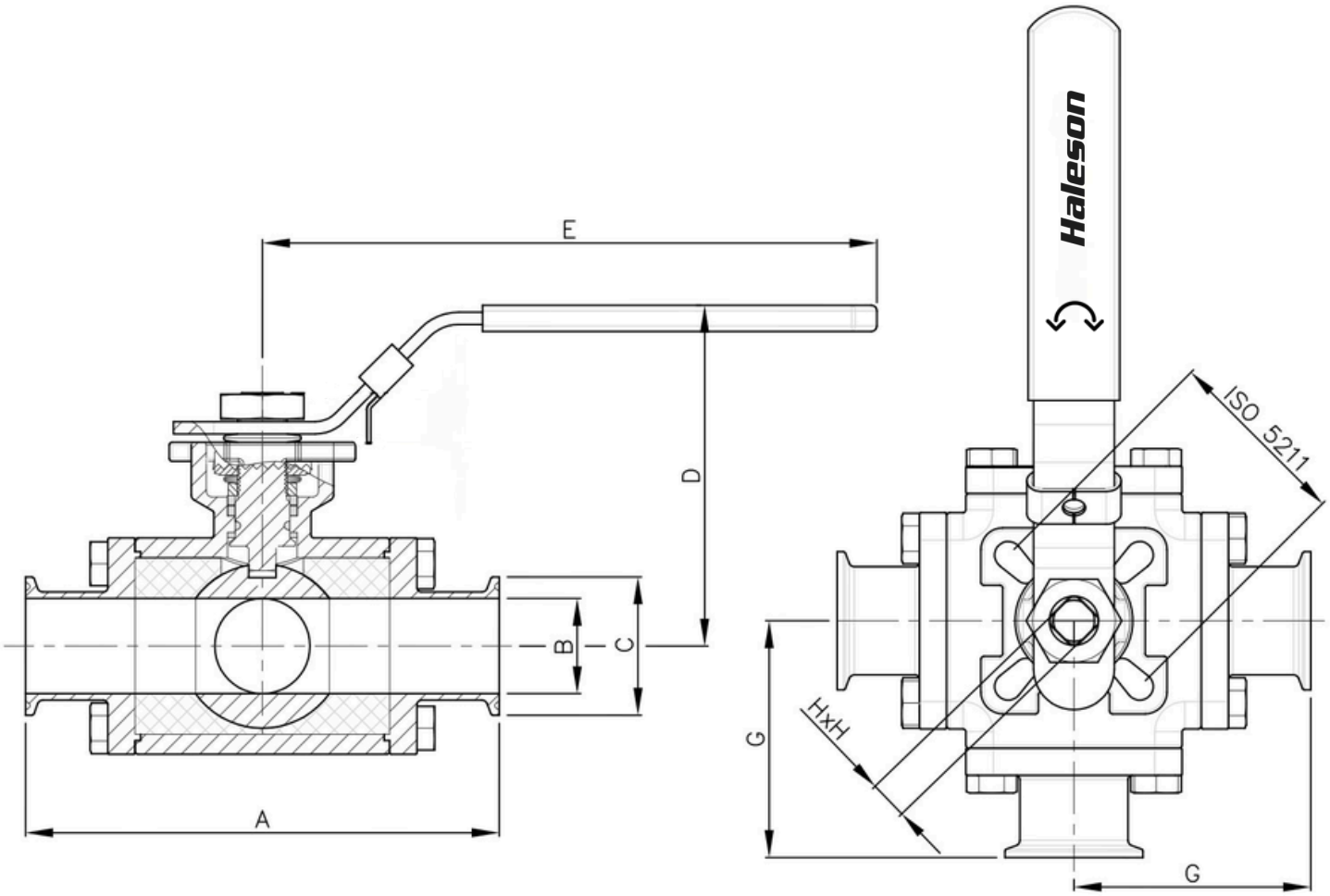
| | |
|---|---|
| Maximum Operating Pressure 1/2'' to 2'' | 1,000 PSI (69 bar) at ambient temperature |
| Maximum Operating Pressure 2-1/2'' and 4'' | 800 PSI (55 bar) at ambient temperature |
| Operating Temperature Range | -20°C to 150°C |
| Wetted Parts Material | SS316L (CF3M) / PTFE |
| Internal Surface Finish | 20Ra (Std.) or 15Ra |
| Features | Solid ball, Blow-out proof stem; Manual Locking Lever; |
| Certification | 3A |

### Pressure - Temperature Rating



# V3X Sanitary Ball Valve

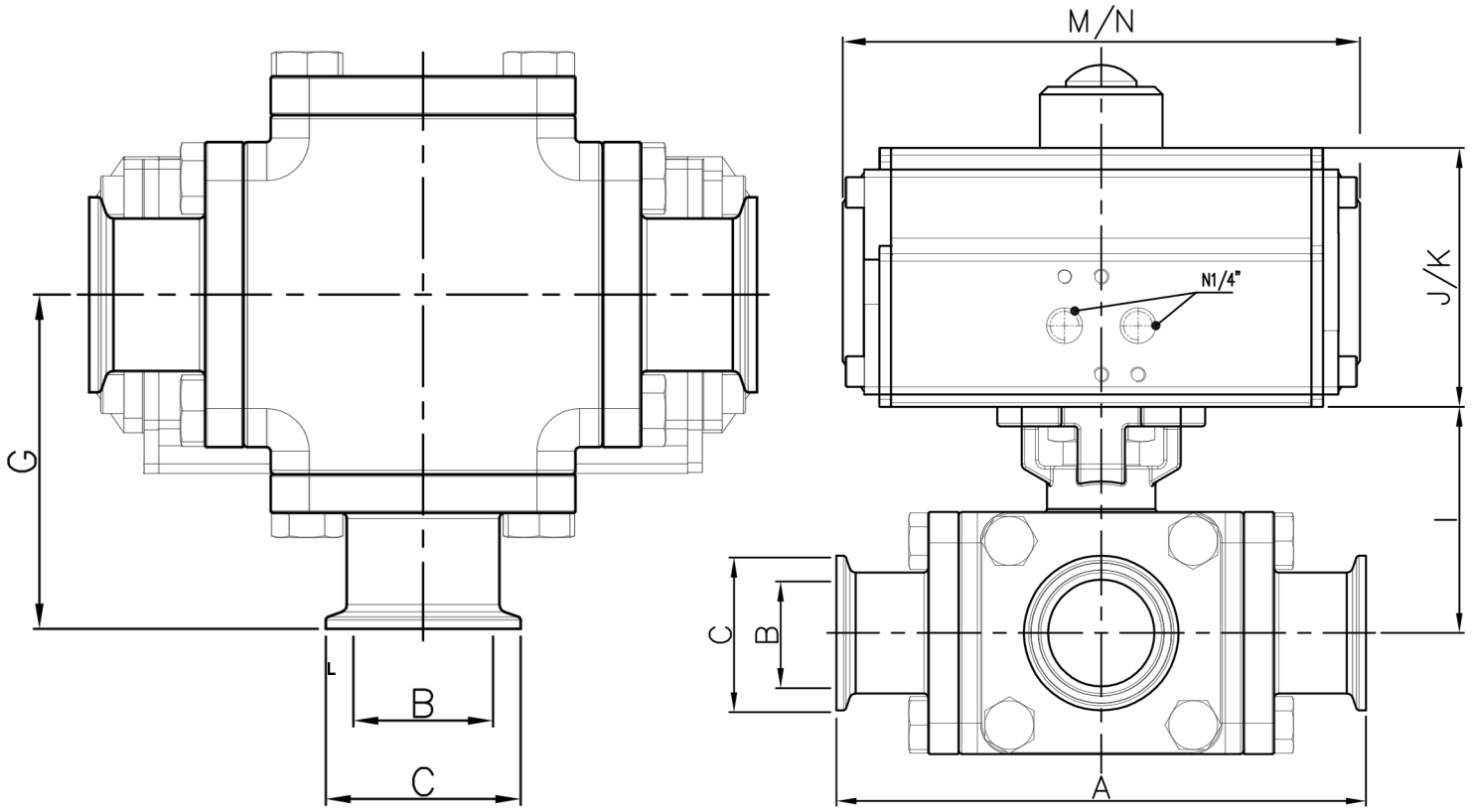



## Dimensions

| Size | A | B | C | D | E | G | H | ISO 5211 Mounting Pad | |
|---|---|---|---|---|---|---|---|---|---|
| 1/2" | 106 | 9.4 | 25.2 | 74 | 135 | 53 | 9 | F03 | F04 |
| 3/4" | 106 | 15.75 | 25.2 | 74 | 135 | 53 | 9 | F03 | F04 |
| 1" | 160 | 22.1 | 50.5 | 94 | 169 | 80 | 11 | F05 | / |
| 1.5" | 183 | 34.8 | 50.5 | 120 | 213 | 91.5 | 14 | F05 | F07 |
| 2" | 216 | 47.5 | 64 | 155 | 320 | 108 | 17 | F05 | F10 |
| 2.5" | 241 | 60.2 | 77.5 | 165.7 | 330 | 120.5 | 17 | F07 | F10 |
| 3" | 280 | 72.9 | 91 | 185 | 410 | 139.75 | 27 | F10 | F12 |
| 4" | 324 | 97.4 | 119 | 193.0 | 500 | 162 | 27 | F10 | F12 |

Dimensions in mm

# V3X Sanitary Ball Valve




## Dimensions

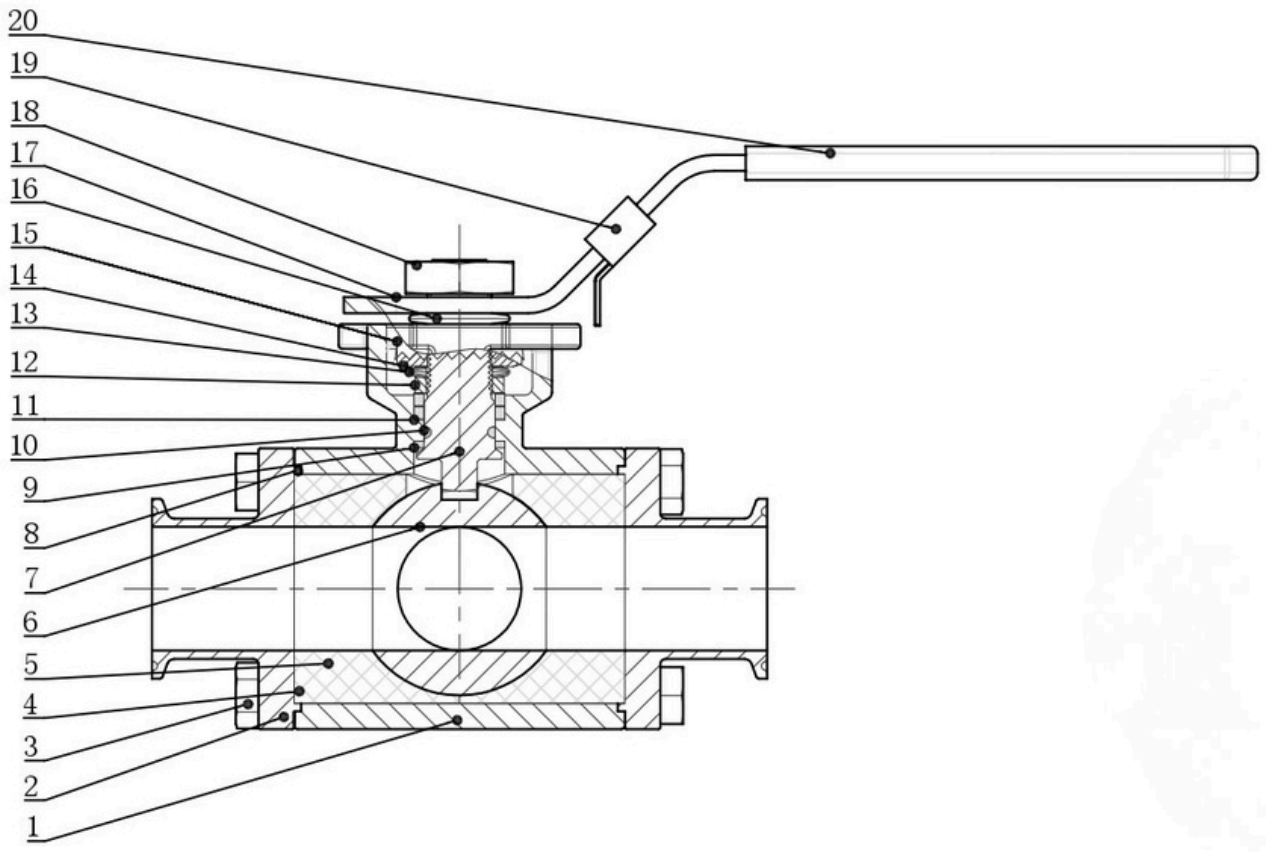
| Size | A | B | C | G | I | J / K (SR / DA) | M / N (SR / DA) | ISO 5211 Mounting Pad | | Single Acting Actuator | Double Acting Actuator |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1/2" | 90.5 | 9.4 | 25.2 | F03 | 37 | 72 / 72 | 146 / 146 | F03 | F04 | HS52SR | HS52DA |
| 3/4" | 103.4 | 15.75 | 25.2 | F03 | 43 | 72 / 72 | 146 / 146 | F03 | F04 | HS52SR | HS52DA |
| 1" | 114.4 | 22.1 | 50.5 | / | 51 | 99.5 / 109 | 186 / 212 | F05 | / | H S75SR | HS83DA |
| 1.5" | 136. 7 | 34.8 | 50.5 | / | 71 | 133 / 109 | 272 / 212 | F05 | F07 | HS105SR | HS83DA |
| 2" | 153.2 | 47.5 | 64 | / | 79 | 133 / 109 | 272 / 212 | F05 | F10 | HS105SR | HS83DA |
| 2.5" | 167. 3 | 60.2 | 77.5 | F07 | 94 | 172 / 155 | 398 / 306 | F07 | F10 | HS140SR | HS125DA |
| 3" | 192.3 | 72.9 | 91 | F07 | 109.5 | 172 / 155 | 398 / 306 | F10 | F12 | HS140SR | HS125DA |
| 4" | 239.5 | 97.4 | 119 | F07 | 123 | 230 / 172 | 534 / 306 | F10 | F12 | HS190SR | HS140DA |

Dimensions in mm

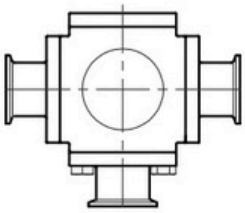
## Bills of Materials

| No. | Name | Number | Material |
|---|---|---|---|
| 1 | Body | 1 | ASTM-A351-CF3M |
| 2 | Cap | 4 | ASTM-A351-CF3M |
| 3 | Bolt | 16 | SS304 |
| 4 | Seat | 2 | PTFE |
| 5 | Ball | 1 | SS316L |
| 6 | Stem | 1 | SS316L |
| 7 | Stem Packing | 4 | PTFE |
| 8 | Ring | 1 | PTFE |
| 9 | O-Ring | 1 | VITON |
| 10 | Thrust Washer | 3 | PTFE |

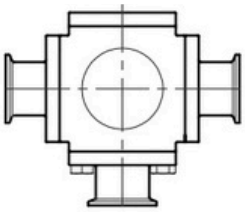
| No. | Name | Number | Material |
|---|---|---|---|
| 11 | Gasket | 1 | SS304 |
| 12 | Hexnut | 2 | SS304 |
| 13 | Butterfly Spring | 2 | SS304 |
| 14 | Hexnut | 1 | SS304 |
| 15 | Belleville Washer | 1 | SS304 |
| 16 | Butterfly Spring | 2 | SS304 |
| 17 | Handle | 1 | SS304 |
| 18 | Handle Nut | 1 | SS304 |
| 19 | Lock Washer | 1 | SS304 |
| 20 | Handle Cover | 1 | PLASTIC |



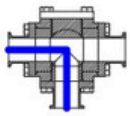
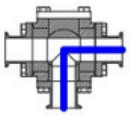
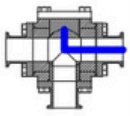
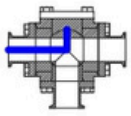
# V3X Sanitary Ball Valve

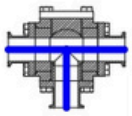
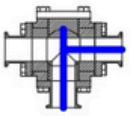
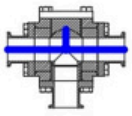
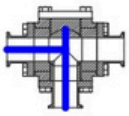


L–PORT



T–PORT

| L–PATTERN BALL–POSITION ARRANGEMENTS | | | |
|---|---|---|---|
| #1 | #2 | #3 | #4 |
|  |  |  |  |

| T–PATTERN BALL–POSITION ARRANGEMENTS | | | |
|---|---|---|---|
| #1 | #2 | #3 | #4 |
|  |  |  |  |

## Configuration - How to Order

**PATTERN BALL POSITION**

| | | |
|---|---|---|
| L - Port | = | L |
| T - Port | = | T |

**SEATS**

| | | |
|---|---|---|
| CAVITY - FILLED | = | CF |
| NON CAVITY - FILLED | = | NF |

**INTERNAL SURFACE FINISH**

| | | |
|---|---|---|
| 20Ra | = | 20 |
| 15Ra | = | 15 |

**SPECIAL OPTIONS**

| | | |
|---|---|---|
| ELECTROPOLISHED WETTED PARTS | = | EP |
| CLEANED FOR OXYGEN SERVICE | = | OX |

**V3X** – **Port** – ___ – ___ – ___ – ___ – ___ – ___

**SERIES**

**END CONNECTIONS**

| | | |
|---|---|---|
| TRI-CLAMP | = | TC |
| WELD | = | WE |

**SEAT MATERIAL**

| | | |
|---|---|---|
| PTFE | = | PT |

**ACTUATION**

| | | |
|---|---|---|
| MANUAL LOCKING LEVER | = | MA |
| SPRING-RETURN ACTUATOR | = | SR |
| DOUBL-ACTING ACTUATOR | = | DA |