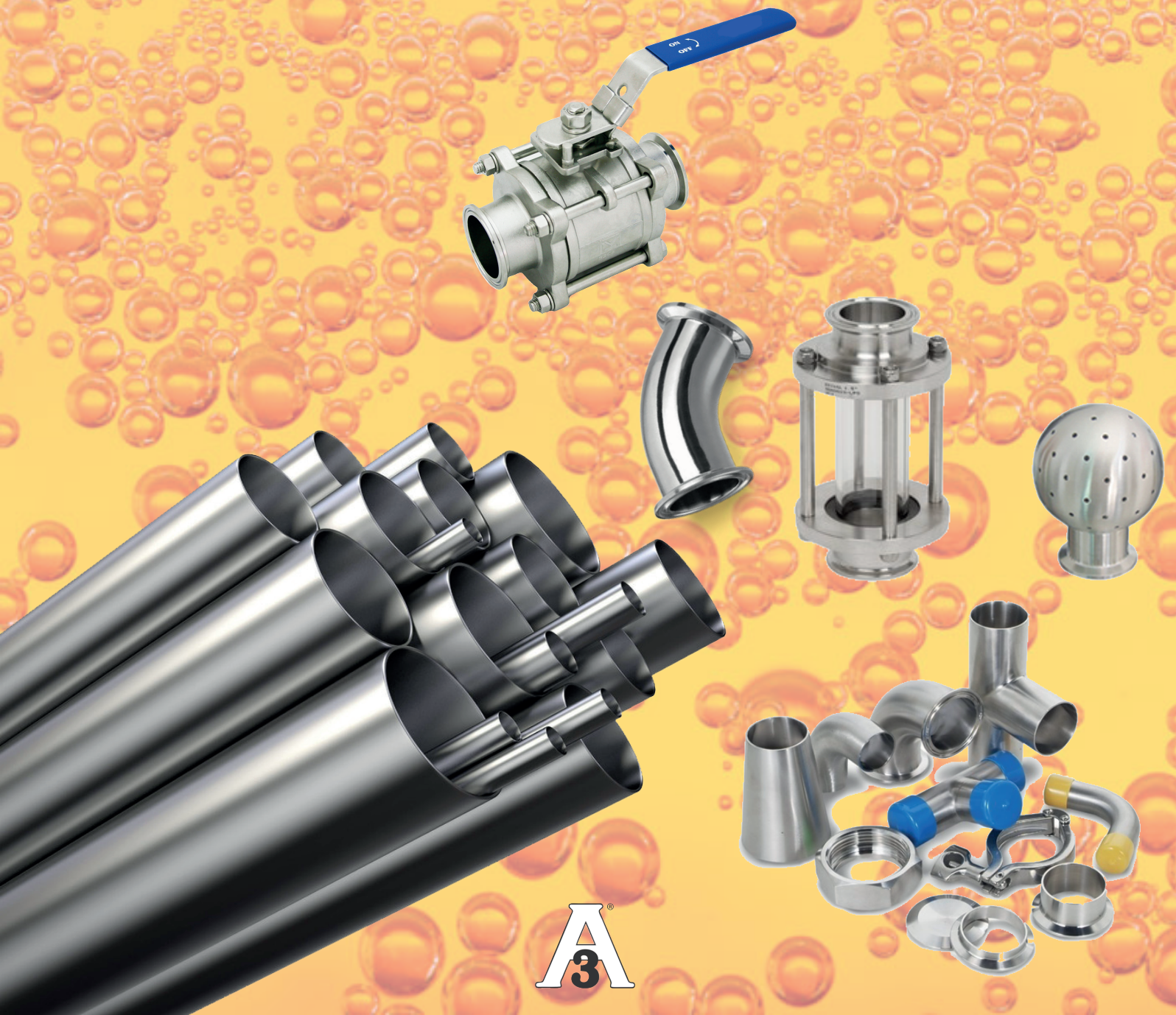




# Stainless Steel Sanitary





# A270

## Sanitary Stainless Steel Tubing & Fittings

For Dairy, Food, Beverage, and  
Other Sanitary Processes

Madco's sanitary tubing & fittings exceeds ASTM A270 S2 and 3A specifications and most user specifications. It is manufactured from the finest quality stainless steel materials made exclusively to the Madco melt criteria and formed by the Madco Micro-Weld™ process to assure weld seam integrity and industry leading ID & OD finishes to the low Ra values demanded by Madco's customers. Madco leads the industry in manufacturing the highest quality welded sanitary tubing, backed with technical expertise, advanced manufacturing and polishing capabilities and unmatched service before and after the sale. All standard sanitary tubing sizes are available in 1/2" (12.7 mm) to 8" (203.2 mm) OD in 20' (6.1 m) lengths.



**ISO 9001:2000**  
CERTIFIED

**PED 97/23/EC**  
CERTIFIED



*make the connection*

# SANITARY STAINLESS STEEL TUBING

## Materials

- 304L & 316L available from stock.

## Mechanical Tests

To ensure the highest surface quality in all of our sanitary tubing, Madco goes beyond the requirements of ASTM A269 and A270 by performing the full battery of ASTM bend and deformation tests required by ASME SA249 as well as additional deformation tests developed by Madco. The tests, combined with specific raw material requirements, eddy current testing at the tube mill, and tighter OD and wall tolerances allow Madco to provide a more consistent superior quality product.

## Annealing

- Hydrogen bright annealed in line to 1900°F (1040° C) minimum and rapidly quenched.

## Surface Finishes\*

Surface finish is 20  $\mu$ -in Ra (0.5  $\mu$ m) ID maximum, 30  $\mu$ -in Ra (0.8  $\mu$ m) OD maximum surface roughness measured per ASME/ANSI B46.1 with the profilometer reading at 90 degrees to major polishing pattern.

Madco's polishing techniques result in surface finishes that lead the industry. All tubing is printed with size, gauge, alloy, ASTM and ASME specifications, heat number and date of manufacturing for full traceability.

## Packaging

As a final step in maintaining purity standards, Madco's A270 S2 tubing is packaged using protective 2 mil poly sleeving along with air tight plastic end caps. The tubing is then placed in triple wall boxes for maximum protection during shipment. Other packaging is available on customer request.

## Specification

Tubing shall be Madco Sanitary Stainless Steel Tubing. Surface finish is 20  $\mu$ -in Ra (0.5  $\mu$ m) ID, 30  $\mu$ -in Ra (0.8  $\mu$ m) OD maximum measured per ASME/ANSI B46.1 with the profilometer reading at 90 degrees to major polishing pattern.

\* 1/2" (12.7 mm), 3/4" (19.1 mm) tubing

Surface finish for this size range is 30  $\mu$ -in Ra (0.8  $\mu$ m) ID maximum. Other Ra finishes are available upon request

## Chemical Composition

| Elements            | 304L (wt%)  | 316L (wt%)  |
|---------------------|-------------|-------------|
| (C) Carbon, max     | 0.035       | 0.035       |
| (Mn) Manganese, max | 2.00        | 2.00        |
| (P) Phosphorus, max | 0.040       | 0.040       |
| (S) Sulfur, max     | 0.030       | 0.030       |
| (Si) Silicon, max   | 0.75        | 0.75        |
| (Ni) Nickel         | 8.0 - 13.0  | 10.0 - 15.0 |
| (Cr) Chromium       | 18.0 - 20.0 | 16.0 - 18.0 |
| (Mo) Molybdenum     | N/A         | 2.0 - 3.0   |
| (Fe) Iron           | Bal.        | Bal.        |
| (Cu) Copper         | N/A         | N/A         |
| (N) Nitrogen        | N/A         | N/A         |

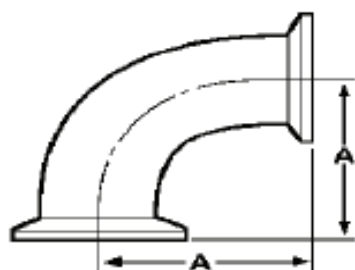
## Dimensional Tolerances

all dimensions in inches (mm)

| Size OD       | Nominal Wall                | Outside Diameter                | Length           | Wall     | Kg/mt |
|---------------|-----------------------------|---------------------------------|------------------|----------|-------|
| 1/2" (12.7)   | 0.065" (1.65)/0.049" (1.25) | +/-0.005 (0.13)                 | +1/8" (3.18) - 0 | +/-10.0% | 0.62  |
| 3/4" (19.1)   | 0.065" (1.65)/0.049" (1.25) | +/-0.005 (0.13)                 | +1/8" (3.18) - 0 | +/-10.0% | 0.72  |
| 1" (25.4)     | 0.065" (1.65)/0.049" (1.25) | +/-0.005 (0.13)                 | +1/8" (3.18) - 0 | +/-10.0% | 0.99  |
| 1-1/2" (38.1) | 0.065" (1.65)/0.049" (1.25) | +/-0.008 (0.20)                 | +1/8" (3.18) - 0 | +/-10.0% | 1.52  |
| 2" (50.8)     | 0.065" (1.65)/0.049" (1.25) | +/-0.008 (0.20)                 | +1/8" (3.18) - 0 | +/-10.0% | 2.05  |
| 2-1/2" (63.5) | 0.065" (1.65)               | +/-0.010 (0.25)                 | +1/8" (3.18) - 0 | +/-10.0% | 2.57  |
| 3" (76.2)     | 0.065" (1.65)               | +/-0.010 (0.25)                 | +1/8" (3.18) - 0 | +/-10.0% | 3.10  |
| 4" (101.6)    | 0.083" (2.11)               | +/-0.015 (0.38)                 | +1/8" (3.18) - 0 | +/-10.0% | 5.29  |
| 6" (152.4)    | 0.083" (2.11)               | +/-0.030 (0.76)                 | +1" (25.4) - 0   | +/-10.0% |       |
| 6" (152.4)    | 0.109" (2.77)               | +/-0.030 (0.76)                 | +1" (25.4) - 0   | +/-10.0% |       |
| 8" (203.2)    | 0.109" (2.77)               | +0.061 (1.55)<br>- 0.031 (0.79) | +1" (25.4) - 0   | +/-10.0% |       |

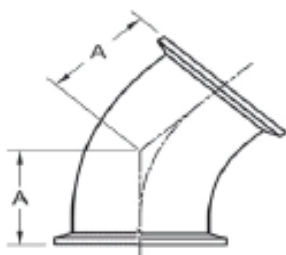
## SANITARY STAINLESS SYSTEMS

### 90° Clamp Short Elbow CC



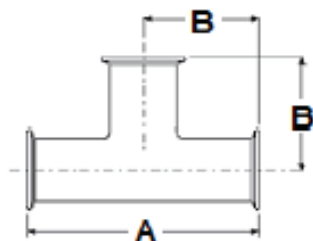
| Tubo OD | A (in) | Weight (kg) |
|---------|--------|-------------|
| 1/2     | 1.625  | 0.059       |
| 3/4     | 1.625  | 0.129       |
| 1       | 2.000  | 0.159       |
| 1-1/2"  | 2.750  | 0.219       |
| 2       | 3.500  | 0.359       |
| 2-1/2"  | 4.250  | 0.508       |
| 3       | 5.000  | 0.708       |
| 4       | 6.625  | 1.566       |
| 6       | 9.875  | 4.490       |
| 8       | 12.875 | 7.414       |

### 45° Clamp Short Elbow CC



| Tubo OD | A (in) | Weight (kg) |
|---------|--------|-------------|
| 1/2     | 0.966  | 0.039       |
| 3/4     | 0.966  | 0.079       |
| 1       | 1.125  | 0.129       |
| 1-1/2"  | 1.437  | 0.139       |
| 2       | 1.750  | 0.219       |
| 2-1/2"  | 2.062  | 0.329       |
| 3       | 2.375  | 0.459       |
| 4       | 3.125  | 0.928       |
| 6       | 4.625  | 2.654       |
| 8       | 5.875  | 4.380       |

### Clamp Long Equal Tee

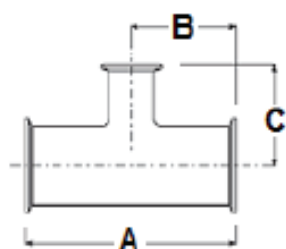


| Tubo OD | A (in) | B (in) | Weight (kg) |
|---------|--------|--------|-------------|
| 1/2     | 4.750  | 2.375  | 0.099       |
| 3/4     | 5.000  | 2.500  | 0.179       |
| 1       | 4.750  | 2.375  | 0.279       |
| 1-1/2"  | 5.500  | 2.750  | 0.319       |
| 2       | 7.000  | 3.500  | 0.518       |
| 2-1/2"  | 7.000  | 3.500  | 0.678       |
| 3       | 7.500  | 3.750  | 0.838       |
| 4       | 9.000  | 4.500  | 1.656       |
| 6       | 13.000 | 6.500  | 3.372       |
| 8       | 15.750 | 7.875  | 5.089       |



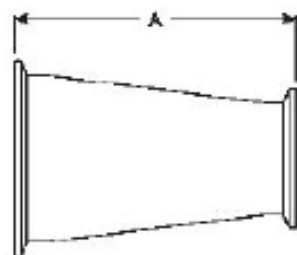
## SANITARY STAINLESS SYSTEMS

### Clamp Long Reducing Tee



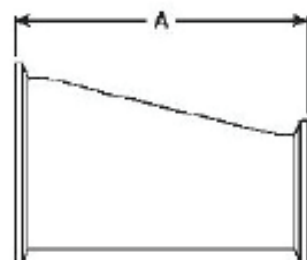
| Tubo OD   | A (in) | B (in) | C (in) | Weight (kg) |
|-----------|--------|--------|--------|-------------|
| 1-1/2 X 1 | 5.500  | 2.750  | 2.626  | 0.319       |
| 2 X 1     | 7.000  | 3.500  | 2.874  | 0.518       |
| 2 X 1-1/2 | 7.000  | 3.500  | 3.000  | 0.518       |
| 2-1/2 X 2 | 7.000  | 3.500  | 3.752  | 0.678       |
| 3 X 1-1/2 | 7.500  | 3.750  | 3.500  | 0.838       |
| 3 X 2     | 7.500  | 3.750  | 4.000  | 0.838       |
| 4 X 3     | 8.998  | 4.499  | 4.122  | 1.656       |

### Clamp Concentric Reducer



| Tubo OD       | A (in) | Weight (kg) |
|---------------|--------|-------------|
| 3/4 X 1/2     | 2.000  | 0.039       |
| 1 X 1/2       | 2.000  | 0.199       |
| 1 X 3/4       | 2.000  | 0.119       |
| 1-1/2 X 1/2   | 3.500  | 0.119       |
| 1-1/2 X 3/4   | 3.000  | 0.119       |
| 1-1/2 X 1     | 3.000  | 0.159       |
| 2 X 1         | 5.000  | 0.279       |
| 2 X 1-1/2     | 3.000  | 0.279       |
| 2-1/2 X 1-1/2 | 5.000  | 0.319       |
| 2-1/2 X 2     | 3.000  | 0.249       |
| 3 X 1-1/2     | 7.000  | 0.578       |
| 3 X 2         | 5.000  | 0.498       |
| 3 X 2-1/2     | 3.000  | 0.329       |
| 4 X 1-1/2     | 11.125 | 1.047       |
| 4 X 2         | 9.125  | 0.898       |
| 4 X 3         | 5.125  | 0.718       |
| 6 X 4         | 7.000  | 1.536       |

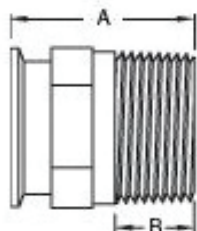
### Clamp Eccentric Reducer



| Tubo OD       | A (in) | Weight (kg) |
|---------------|--------|-------------|
| 1-1/2 X 1     | 3.000  | 0.159       |
| 2 X 1         | 5.000  | 0.279       |
| 2 X 1-1/2     | 3.000  | 0.199       |
| 2-1/2 X 1-1/2 | 5.000  | 0.319       |
| 2-1/2 X 2     | 3.000  | 0.249       |
| 3 X 2         | 5.000  | 0.498       |
| 3 X 2-1/2     | 3.000  | 0.329       |
| 4 X 2         | 9.125  | 0.898       |
| 4 X 2-1/2     | 7.125  | 0.698       |
| 4 X 3         | 5.125  | 0.718       |
| 6 X 4         | 7.000  | 1.536       |

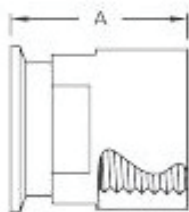
## SANITARY STAINLESS SYSTEMS

### Male NPT X Clamp Adapter



| Tubo OD | NPT Size (in) | A (in) | B (in) | Weight (kg) |
|---------|---------------|--------|--------|-------------|
| 1/2     | 3/8           | 2.000  | 0.600  | 0.097       |
| 1/2     | 1/2           | 1.625  | 0.782  | 0.105       |
| 3/4     | 1/2           | 2.000  | 0.782  | 0.105       |
| 3/4     | 3/4           | 1.787  | 0.794  | 0.105       |
| 1       | 1/2           | 2.187  | 0.782  | 0.319       |
| 1       | 1             | 2.250  | 0.985  | 0.319       |
| 1       | 1-1/2"        | 2.438  | 1.025  | 0.319       |
| 1-1/2"  | 3/4           | 2.187  | 0.794  | 0.359       |
| 1-1/2"  | 1             | 2.437  | 0.985  | 0.359       |
| 1-1/2"  | 1-1/2"        | 2.250  | 1.025  | 0.359       |
| 2       | 1/2           | 2.188  | 0.782  | 0.528       |
| 2       | 1             | 2.469  | 0.985  | 0.528       |
| 2       | 1-1/2"        | 2.625  | 1.009  | 0.528       |
| 2       | 2             | 2.638  | 1.058  | 0.528       |
| 2-1/2"  | 2-1/2"        | 2.875  | 1.571  | 0.686       |
| 3       | 3             | 3.070  | 1.634  | 1.047       |
| 4       | 4             | 3.155  | 1.734  | 1.556       |

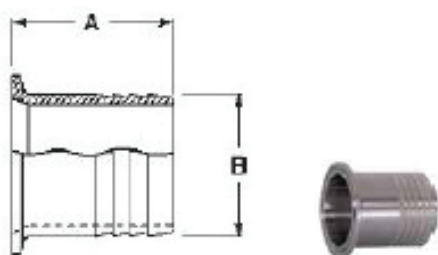
### Female NPT X Clamp Adapter



| Tubo OD | NPT Size (in) | A (in) | Weight (kg) |
|---------|---------------|--------|-------------|
| 1/2     | 1/2           | 1.500  | 0.115       |
| 3/4     | 3/4           | 1.625  | 0.089       |
| 1       | 1             | 1.625  | 0.369       |
| 1-1/2"  | 1-1/2"        | 2.250  | 0.478       |
| 2       | 2             | 2.406  | 0.648       |
| 2-1/2"  | 2-1/2"        | 2.187  | 0.728       |
| 3       | 3             | 2.187  | 0.748       |
| 4       | 4             | 3.652  | 2.325       |

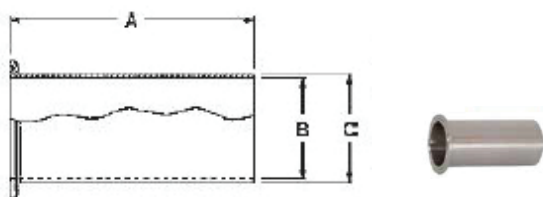


## Clamp Rubber Hose Adapter



| Tubo OD | NPT Size (in) | A (in) | B (in) | Weight (kg) |
|---------|---------------|--------|--------|-------------|
| 1/2     | 3/8           | 1.500  | 0.400  | 0.099       |
| 1/2     | 1/2           | 1.500  | 0.500  | 0.099       |
| 3/4     | 1/4           | 1.500  | 0.310  | 0.099       |
| 3/4     | 3/8           | 1.500  | 0.400  | 0.099       |
| 3/4     | 3/4           | 1.500  | 0.750  | 0.099       |
| 1       | 3/8           | 1.500  | 0.400  | 0.149       |
| 1       | 1/2           | 1.500  | 0.500  | 0.149       |
| 1       | 3/4           | 1.680  | 0.750  | 0.149       |
| 1       | 1             | 1.680  | 1.000  | 0.149       |
| 1-1/2"  | 3/4           | 1.500  | 0.750  | 0.189       |
| 1-1/2"  | 1             | 1.680  | 1.000  | 0.189       |
| 1-1/2"  | 1-1/2"        | 1.680  | 1.500  | 0.189       |
| 2       | 2             | 2.312  | 1.500  | 0.269       |
| 2-1/2"  | 2-1/2"        | 2.344  | 2.500  | 0.339       |
| 3       | 3             | 3.094  | 3.000  | 0.429       |
| 4       | 4             | 3.406  | 4.000  | 0.748       |

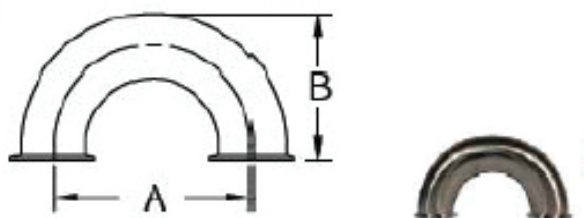
## Tygon Hose Adapter



| Tubo OD | A (in) | B (in) | C (in) | Weight (kg) |
|---------|--------|--------|--------|-------------|
| 1/2     | 4.000  | 0.370  | 0.500  | 0.133       |
| 3/4     | 4.000  | 0.620  | 0.750  | 0.136       |
| 1       | 4.500  | 0.870  | 1.000  | 0.172       |
| 1 1/2   | 4.500  | 1.370  | 1.500  | 0.190       |
| 2       | 4.500  | 1.870  | 2.000  | 0.263       |
| 2 1/2   | 4.500  | 2.370  | 2.500  | 0.335       |
| 3       | 4.500  | 2.870  | 3.000  | 0.417       |
| 4       | 4.625  | 3.834  | 4.000  | 0.635       |
| 6       | 6.000  | 5.782  | 6.000  | 2.766       |

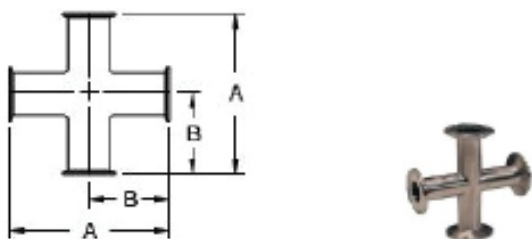
## SANITARY STAINLESS SYSTEMS

### 180° Clamp U-Bend



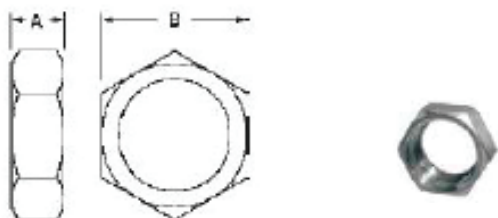
| Tubo OD | A (in) | B (in) | Weight (kg) |
|---------|--------|--------|-------------|
| 1/2     | -      | -      | 0.090       |
| 3/4     | -      | -      | 0.136       |
| 1       | 3.000  | 2.500  | 0.235       |
| 1 1/2   | 4.500  | 3.500  | 0.308       |
| 2       | 6.000  | 4.500  | 0.498       |
| 2 1/2   | 7.500  | 5.500  | 0.798       |
| 3       | 9.000  | 6.500  | 1.170       |
| 4       | 12.000 | 8.625  | 2.775       |
| 6       | -      | -      | 5.443       |

### Clamp Long Equal 4-Way Cross



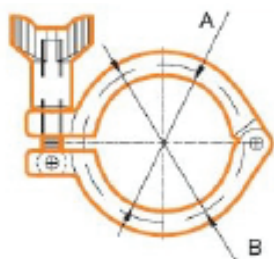
| Tubo OD | A (in) | B (in) | Weight (kg) |
|---------|--------|--------|-------------|
| 1/2     | -      | -      | 0.362       |
| 3/4     | -      | -      | 0.385       |
| 1       | 4.750  | 2.375  | 0.417       |
| 1 1/2   | 5.500  | 2.750  | 0.598       |
| 2       | 7.000  | 3.500  | 0.752       |
| 2 1/2   | 7.000  | 3.500  | 0.752       |
| 3       | 7.500  | 3.750  | 0.997       |
| 4       | 9.000  | 4.500  | 1.796       |
| 6       | -      | -      | 5.443       |

### Hexagonal Union Nut



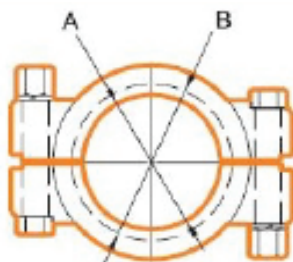
| Tubo OD | A (in) | B (in) | Weight (kg) |
|---------|--------|--------|-------------|
| 1-1/2"  | 0.968  | 2.406  | 0.090       |
| 2       | 1.062  | 3.000  | 0.369       |
| 2-1/2"  | 1.187  | 3.594  | 0.588       |
| 3       | 1.281  | 4.188  | 0.828       |
| 4       | 1.500  | 5.438  | 1.576       |

## Heavy Duty Single Pin Clamp



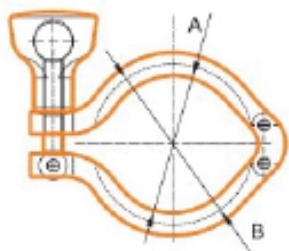
| Tubo OD   | A (in) | B (in) | Weight (kg) |
|-----------|--------|--------|-------------|
| 1/2 - 3/4 | 0.787  | 1.110  | 0.169       |
| 1 - 1-1/2 | 1.748  | 2.110  | 0.249       |
| 1/2       | 0.787  | 1.110  | 0.169       |
| 3/4       | 0.787  | 1.110  | 0.169       |
| 1         | 1.748  | 2.110  | 0.199       |
| 1-1/2"    | 1.748  | 2.110  | 0.199       |
| 2         | 2.276  | 2.640  | 0.279       |
| 2-1/2"    | 2.811  | 3.173  | 0.379       |
| 3         | 3.307  | 3.709  | 0.399       |
| 4         | 4.331  | 4.811  | 0.369       |
| 6         | 6.118  | 6.709  | 0.828       |
| 8         | 8.071  | 8.661  | 1.027       |

## High Pressure Clamp



| Tube OD  | A (in) | B (in) | Weight (kg) |
|----------|--------|--------|-------------|
| 1 -1-1/2 | 1.705  | 2.047  | 0.429       |
| 3/4      | 0.787  | 1.102  | 0.129       |
| 1        | 1.705  | 2.047  | 0.429       |
| 1-1/2"   | 1.705  | 2.047  | 0.429       |
| 2        | 2.220  | 2.579  | 0.528       |
| 2-1/2"   | 2.736  | 3.110  | 0.598       |
| 3        | 3.051  | 3.642  | 0.678       |
| 4        | 4.291  | 4.744  | 0.778       |
| 6        | 6.220  | 6.693  | 1.107       |
| 8        | 8.760  | 9.350  | 1.566       |

## Double Pin Heavy Duty Clamp



| Nominal Size | A (in) | B (in) | Weight (kg) |
|--------------|--------|--------|-------------|
| 1/2          | 0.787  | 1.102  | 0.169       |
| 3/4          | 0.787  | 1.102  | 0.169       |
| 1            | 1.717  | 2.110  | 0.199       |
| 1-1/2"       | 1.717  | 2.110  | 0.199       |
| 2            | 2.244  | 2.638  | 0.279       |
| 2-1/2"       | 2.780  | 3.173  | 0.379       |
| 3            | 3.307  | 3.700  | 0.399       |
| 4            | 4.409  | 4.800  | 0.369       |
| 6            | 6.102  | 6.693  | 0.369       |
| 8            | 8.071  | 8.693  | 1.197       |

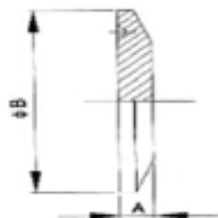


## Three Segment Clamp



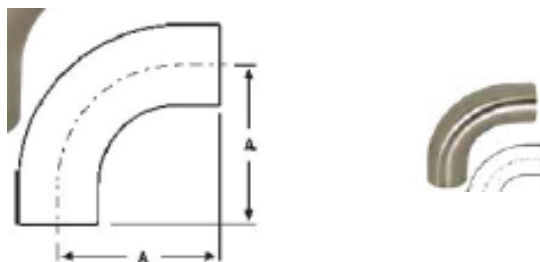
| Tubo OD | A (in) | Weight (kg) |
|---------|--------|-------------|
| 1-1/2"  | 2.122  | 0.229       |
| 2       | 2.654  | 0.419       |
| 2-1/2"  | 3.185  | 0.478       |
| 3       | 3.717  | 0.498       |
| 4       | 4.820  | 0.498       |

## Clamp End Cap



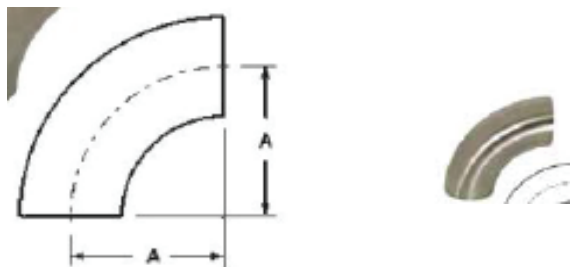
| Size (in) | A (in) | B (in) | Weight (kg) |
|-----------|--------|--------|-------------|
| 1/2       | 5.000  | 1.000  | 0.068       |
| 3/4       | 5.000  | 1.000  | 0.068       |
| 1/2 - 3/4 | -      | -      | 0.068       |
| 1         | 6.300  | 1.984  | 0.079       |
| 1 - 1-1/2 | -      | -      | 0.079       |
| 1-1/2"    | 6.300  | 1.984  | 0.079       |
| 2         | 6.300  | 2.519  | 0.139       |
| 2-1/2"    | 6.300  | 3.051  | 0.209       |
| 3         | 6.300  | 3.582  | 0.289       |
| 4         | 7.900  | 4.685  | 0.719       |
| 6         | 11.100 | 6.566  | 1.728       |
| 8         | 11.100 | 8.571  | 3.136       |
| 10        | 11.100 | 10.551 | 4.699       |
| 12        | 11.100 | 12.600 | 4.999       |

## 90° Buttweld Long Elbow



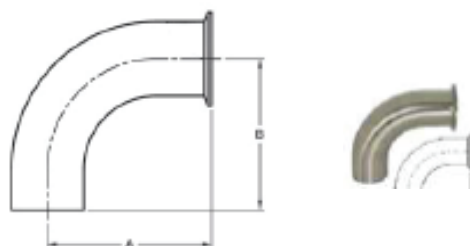
| Tubo OD | A (in) | Nominal Wall | Weight (kg) |
|---------|--------|--------------|-------------|
| 1/2     | 3.000  | 0.065        | 0.059       |
| 3/4     | 3.000  | 0.065        | 0.099       |
| 1       | 2.062  | 0.065        | 0.099       |
| 1-1/2"  | 2.937  | 0.065        | 0.169       |
| 2       | 4.062  | 0.065        | 0.319       |
| 2-1/2"  | 5.187  | 0.065        | 0.598       |
| 3       | 6.312  | 0.065        | 0.758       |
| 4       | 8.312  | 0.083        | 1.666       |

## 90° Butt weld Short Elbow



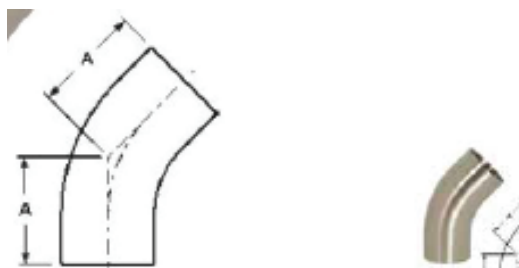
| Tubo OD | A (in) | Nominal Wall | Weight (kg) |
|---------|--------|--------------|-------------|
| 1/2     | 1.125  | 0.065        | 0.019       |
| 3/4     | 1.125  | 0.065        | 0.039       |
| 1       | 1.500  | 0.065        | 0.059       |
| 1-1/2"  | 2.250  | 0.065        | 0.139       |
| 2       | 3.000  | 0.065        | 0.239       |
| 2-1/2"  | 3.750  | 0.065        | 0.379       |
| 3       | 4.500  | 0.065        | 0.578       |
| 4       | 6.000  | 0.083        | 1.297       |
| 6       | 9.000  | 0.109        | 3.712       |

## 90° Clamp X Weld Long Elbow



| Tubo OD | A (in) | B (in) | Nominal Wall | Weight (kg) |
|---------|--------|--------|--------------|-------------|
| 1       | 2.562  | 2.062  | 0.065        | 0.139       |
| 1-1/2"  | 3.438  | 2.937  | 0.065        | 0.239       |
| 2       | 4.562  | 4.062  | 0.065        | 0.379       |
| 2-1/2"  | 5.688  | 5.187  | 0.065        | 0.538       |
| 3       | 6.812  | 6.312  | 0.065        | 0.778       |
| 4       | 8.937  | 8.312  | 0.083        | 1.596       |

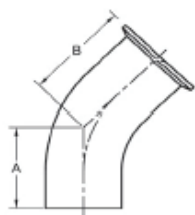
## 45° Butt weld Long Elbow



| Tubo OD | A (in) | Nominal Wall | Weight (kg) |
|---------|--------|--------------|-------------|
| 1/2     | 2.250  | 0.065        | 0.039       |
| 3/4     | 2.250  | 0.065        | 0.079       |
| 1       | 1.188  | 0.065        | 0.099       |
| 1-1/2"  | 1.625  | 0.065        | 0.149       |
| 2       | 2.312  | 0.065        | 0.219       |
| 2-1/2"  | 3.000  | 0.065        | 0.339       |
| 3       | 3.688  | 0.065        | 0.528       |
| 4       | 4.812  | 0.083        | 1.117       |

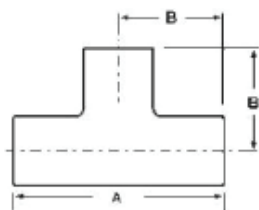
## SANITARY STAINLESS SYSTEMS

### 45° Clamp X Weld Long Elbow



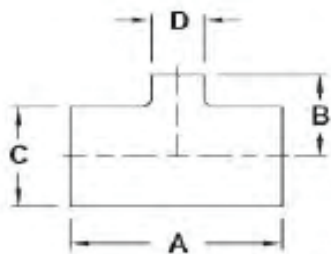
| Tubo OD | A (in) | B (in) | Nominal Wall | Weight (kg) |
|---------|--------|--------|--------------|-------------|
| 1       | 1.188  | 1.688  | 0.065        | 0.119       |
| 1-1/2"  | 1.625  | 2.125  | 0.065        | 0.159       |
| 2       | 2.312  | 2.812  | 0.065        | 0.259       |
| 2-1/2"  | 3.000  | 3.500  | 0.065        | 0.379       |
| 3       | 3.688  | 4.188  | 0.065        | 0.498       |
| 4       | 4.812  | 5.437  | 0.083        | 1.017       |

### Buttweld Long Equal Tee



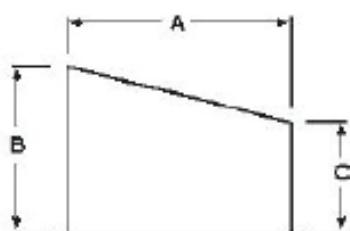
| Tubo OD | A (in) | B (in) | Nominal Wall | Weight (kg) |
|---------|--------|--------|--------------|-------------|
| 1/2     | 3.750  | 1.875  | 0.065        | 0.059       |
| 3/4     | 4.000  | 2.000  | 0.065        | 0.119       |
| 1       | 3.750  | 1.875  | 0.065        | 0.119       |
| 1-1/2"  | 4.500  | 2.250  | 0.065        | 0.239       |
| 2       | 6.000  | 3.000  | 0.065        | 0.369       |
| 2-1/2"  | 6.000  | 3.000  | 0.065        | 0.469       |
| 3       | 6.500  | 3.250  | 0.065        | 0.608       |
| 4       | 7.750  | 3.875  | 0.083        | 1.227       |
| 6       | 11.250 | 5.625  | 0.109        | 1.846       |

### Buttweld Short Reducing Tee



| Tubo OD       | A (in) | B (in) | C (in) | D (in) | Nominal Wall | Weight (kg) |
|---------------|--------|--------|--------|--------|--------------|-------------|
| 1 X 1/2       | 4.250  | 2.125  | 1.000  | 0.500  | 0.065        | 0.139       |
| 1 X 3/4       | 4.250  | 2.125  | 1.000  | 0.750  | 0.065        | 0.139       |
| 1-1/2 X 1/2   | 4.750  | 2.375  | 1.500  | 0.500  | 0.065        | 0.219       |
| 1-1/2 X 3/4   | 4.750  | 2.375  | 1.500  | 0.750  | 0.065        | 0.219       |
| 1-1/2 X 1     | 3.312  | 1.375  | 1.500  | 1.000  | 0.065        | 0.219       |
| 2 X 1/2       | 5.750  | 2.625  | 2.000  | 0.500  | 0.065        | 0.259       |
| 2 X 3/4       | 5.750  | 2.625  | 2.000  | 0.750  | 0.065        | 0.259       |
| 2 X 1         | 4.124  | 1.625  | 2.000  | 1.000  | 0.065        | 0.259       |
| 2 X 1-1/2     | 4.124  | 1.906  | 2.000  | 1.500  | 0.065        | 0.279       |
| 2-1/2 X 1-1/2 | 4.688  | 2.156  | 2.500  | 1.500  | 0.065        | 0.399       |
| 2-1/2 X 2     | 4.688  | 2.312  | 2.500  | 2.000  | 0.065        | 0.359       |
| 3 X 1-1/2     | 5.188  | 2.406  | 3.000  | 1.500  | 0.065        | 0.459       |
| 3 X 2         | 5.188  | 2.562  | 3.000  | 2.000  | 0.065        | 0.459       |
| 3 X 2-1/2     | 5.188  | 2.594  | 3.000  | 2.500  | 0.083        | 0.459       |
| 4 X 1-1/2     | 6.876  | 2.906  | 4.000  | 1.500  | 0.083        | 0.997       |
| 4 X 2         | 6.876  | 3.062  | 4.000  | 2.000  | 0.083        | 0.997       |
| 4 X 2-1/2     | 6.876  | 3.094  | 4.000  | 2.500  | 0.083        | 0.997       |
| 4 X 3         | 6.876  | 3.157  | 4.000  | 3.000  | 0.083        | 0.997       |

## Buttweld Eccentric Reducer



| Tubo OD       | A (in) | B (in) | C (in) | Nominal Wall | Weight (kg) |
|---------------|--------|--------|--------|--------------|-------------|
| 3/4 X 1/2     | 1.000  | 0.750  | 0.500  | 0.065        | 0.029       |
| 1 X 1/2       | 1.000  | 1.000  | 0.500  | 0.065        | 0.039       |
| 1 X 3/4       | 1.000  | 1.000  | 0.750  | 0.065        | 0.039       |
| 1-1/2 X 1     | 2.000  | 1.500  | 1.000  | 0.065        | 0.059       |
| 2 X 1         | 4.000  | 2.000  | 1.000  | 0.065        | 0.119       |
| 2 X 1-1/2     | 2.000  | 2.000  | 1.500  | 0.065        | 0.089       |
| 2-1/2 X 1-1/2 | 4.000  | 2.500  | 1.500  | 0.065        | 0.209       |
| 2-1/2 X 2     | 2.000  | 2.500  | 2.000  | 0.065        | 0.119       |
| 3 X 1         | 8.000  | 3.000  | 1.000  | 0.065        | 0.349       |
| 3 X 1-1/2     | 6.000  | 3.000  | 1.500  | 0.065        | 0.349       |
| 3 X 2         | 4.000  | 3.000  | 2.000  | 0.065        | 0.259       |
| 3 X 2-1/2     | 2.000  | 3.000  | 2.500  | 0.065        | 0.149       |
| 4 X 2         | 8.000  | 4.000  | 2.000  | 0.083        | 0.668       |
| 4 X 2-1/2     | 6.000  | 4.000  | 2.500  | 0.083        | 0.548       |
| 4 X 3         | 4.000  | 4.000  | 3.000  | 0.083        | 0.409       |
| 6 X 4         | 5.500  | 6.000  | 4.000  | 0.109        | 1.127       |

## Buttweld Short Elbow

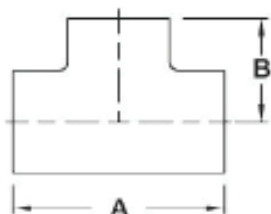


| Tubo OD | A (in) | R (in) | Nominal Wall | Weight (kg) |
|---------|--------|--------|--------------|-------------|
| 1/2     | 0.466  | 1.125  | 0.065        | 0.019       |
| 3/4     | 0.466  | 1.125  | 0.065        | 0.019       |
| 1       | 0.625  | 1.500  | 0.065        | 0.029       |
| 1-1/2"  | 0.937  | 2.250  | 0.065        | 0.069       |
| 2       | 1.250  | 3.000  | 0.065        | 0.109       |
| 2-1/2"  | 1.562  | 3.750  | 0.065        | 0.189       |
| 3       | 1.875  | 4.500  | 0.065        | 0.269       |
| 4       | 2.500  | 6.000  | 0.083        | 0.638       |
| 6       | -      | -      | -            | -           |
| 8       | -      | -      | -            | -           |



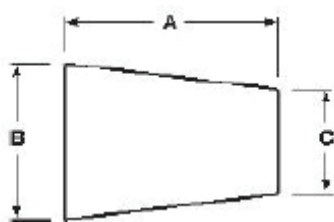
## SANITARY STAINLESS SYSTEMS

### Buttweld Short Equal Tee



| Tubo OD | A (in) | B (in) | Nominal Wall | Weight (kg) |
|---------|--------|--------|--------------|-------------|
| 1       | 2.250  | 1.125  | 0.065        | 0.059       |
| 1 1/2   | 3.312  | 1.656  | 0.065        | 0.149       |
| 2       | 4.124  | 2.062  | 0.065        | 0.259       |
| 2 1/2   | 4.688  | 2.344  | 0.065        | 0.329       |
| 3       | 5.188  | 2.594  | 0.065        | 0.488       |
| 4       | 6.876  | 3.438  | 0.083        | 0.997       |
| 6       | -      | -      | -            | -           |

### Buttweld Concentric Reducer



| Tubo OD       | A (in) | B (in) | C (in) | Nominal Wall | Weight (kg) |
|---------------|--------|--------|--------|--------------|-------------|
| 3/4 X 1/2     | 1.000  | 0.750  | 0.500  | 0.065        | 0.029       |
| 1 X 1/2       | 1.000  | 1.000  | 0.500  | 0.065        | 0.039       |
| 1 X 3/4       | 1.000  | 1.000  | 0.750  | 0.065        | 0.039       |
| 1-1/2 X 1/2   | 2.500  | 1.500  | 0.500  | 0.065        | 0.059       |
| 1-1/2 X 3/4   | 2.000  | 1.500  | 0.750  | 0.065        | 0.059       |
| 1-1/2 X 1     | 2.000  | 1.500  | 1.000  | 0.065        | 0.059       |
| 2 X 1         | 4.000  | 2.000  | 1.000  | 0.065        | 0.119       |
| 2 X 1-1/2     | 2.000  | 2.000  | 1.500  | 0.065        | 0.089       |
| 2-1/2 X 1-1/2 | 4.000  | 2.500  | 1.500  | 0.065        | 0.209       |
| 2-1/2 X 2     | 2.000  | 2.500  | 2.000  | 0.065        | 0.119       |
| 3 X 1         | 8.000  | 3.000  | 1.000  | 0.065        | 0.349       |
| 3 X 1-1/2     | 6.000  | 3.000  | 1.500  | 0.065        | 0.349       |
| 3 X 2         | 4.000  | 3.000  | 2.000  | 0.065        | 0.259       |
| 3 X 2-1/2     | 2.000  | 3.000  | 2.500  | 0.065        | 0.149       |
| 4 X 2         | 8.000  | 4.000  | 2.000  | 0.083        | 0.668       |
| 4 X 3         | 4.000  | 4.000  | 3.000  | 0.083        | 0.409       |
| 6 X 4         | 5.500  | 6.000  | 2.000  | 0.109        | 1.127       |
| 6 X 2         | -      | -      | -      | -            | -           |
| 6 X 3         | -      | -      | -      | -            | -           |
| 8 X 4         | -      | -      | -      | -            | -           |
| 8 X 6         | -      | -      | -      | -            | -           |

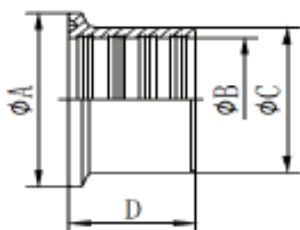
## SANITARY STAINLESS SYSTEMS

### Buttweld End Cap



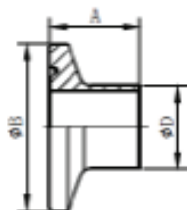
| Tubo OD | A (in) | Weight (kg) |
|---------|--------|-------------|
| 1       | 0.375  | 0.010       |
| 1-1/2"  | 0.562  | 0.024       |
| 2       | 0.750  | 0.149       |
| 2-1/2"  | 1.000  | 0.099       |
| 3       | 1.250  | 0.199       |
| 4       | 1.500  | 0.199       |

### Sanitary Expanding Ferrule



| Tubo OD | A (in) | B (in) | C (in) | Nominal Wall | Weight (kg) |
|---------|--------|--------|--------|--------------|-------------|
| 1       | 1.990  | 1.000  | 1.160  | 0.750        | 0.049       |
| 1-1/2"  | 1.990  | 1.500  | 1.680  | 1.130        | 0.068       |
| 2       | 2.520  | 2.000  | 2.190  | 1.310        | 0.108       |
| 2-1/2"  | 3.050  | 2.490  | 2.710  | 1.370        | 0.149       |
| 3       | 3.580  | 3.000  | 3.220  | 1.440        | 0.217       |
| 4       | 4.690  | 4.000  | 4.260  | 1.500        | 0.358       |
| 6       | 6.570  | -      | -      | 1.500        | 0.997       |

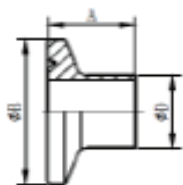
### Sanitary Long Ferrule



| Size (in) | A (in) L14AM | B (in) | D (in) | Weight (kg) |
|-----------|--------------|--------|--------|-------------|
| 1/2       | 1.130        | 1.000  | 0.500  | 0.081       |
| 3/4       | 1.130        | 1.000  | 0.750  | 0.090       |
| 1         | 1.130        | 1.990  | 1.000  | 0.090       |
| 1-1/2"    | 1.130        | 1.990  | 1.500  | 0.090       |
| 2         | 1.130        | 2.520  | 2.000  | 0.090       |
| 2-1/2"    | 1.130        | 3.050  | 2.500  | 0.117       |
| 3         | 1.130        | 3.580  | 3.000  | 0.149       |
| 4         | 1.130        | 4.690  | 4.000  | 0.258       |
| 5         | -            | -      | -      | 0.352       |
| 6         | 1.500        | 6.570  | 6.000  | 0.498       |
| 8         | 1.500        | 8.570  | 8.000  | 0.598       |
| 10        | 1.500        | 10.550 | 10.000 | 1.006       |
| 12        | 1.500        | 12.560 | 12.000 | 1.292       |

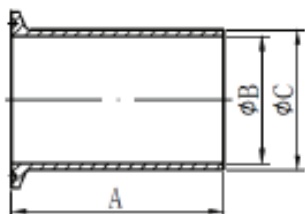
## SANITARY STAINLESS SYSTEMS

### Sanitary Short Ferrule



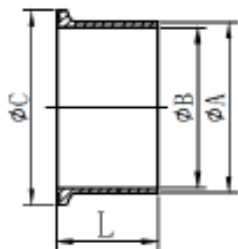
| Size (in) | A (in) | B (in) | D (in) | Weight (kg) |
|-----------|--------|--------|--------|-------------|
|           | 14WMP  |        |        |             |
| 1/2       | 0.500  | 1.000  | 0.500  | 0.036       |
| 3/4       | 0.500  | 1.000  | 0.750  | 0.045       |
| 1         | 0.500  | 1.990  | 1.000  | 0.068       |
| 1-1/2"    | 0.500  | 1.990  | 1.500  | 0.040       |
| 2         | 0.500  | 2.520  | 2.000  | 0.058       |
| 2-1/2"    | 0.500  | 3.050  | 2.500  | 0.077       |
| 3         | 0.500  | 3.580  | 3.000  | 0.095       |
| 4         | 0.620  | 4.690  | 4.000  | 0.176       |
| 5         | -      | -      | -      | 0.362       |
| 6         | 0.850  | 6.570  | 6.000  | 0.421       |
| 8         | 0.850  | 8.570  | 8.000  | 0.566       |
| 10        | 0.850  | 10.560 | 10.000 | 0.907       |
| 12        | 0.850  | 12.560 | 12.000 | 1.133       |

### Sanitary Long Tank Ferrule



| Size (in) | A (in) | B (in) | C (in) | Weight (kg) |
|-----------|--------|--------|--------|-------------|
| 1         | 3.000  | 0.870  | 1.000  | 0.099       |
| 1-1/2"    | 3.000  | 1.370  | 1.500  | 0.099       |
| 2         | 3.000  | 1.870  | 2.000  | 0.108       |
| 2-1/2"    | 3.000  | 2.370  | 2.500  | 0.149       |
| 3         | 4.000  | 2.870  | 3.000  | 0.199       |
| 4         | 4.000  | 3.830  | 4.000  | 0.349       |
| 6         | 6.000  | 5.780  | 6.000  | 0.802       |

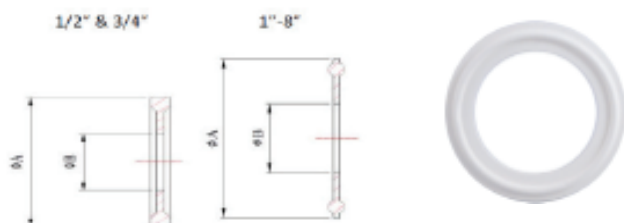
### Sanitary Tank Ferrule



| Size (in) | A (in) | B (in) | C (in) | L (in) | Weight (kg) |
|-----------|--------|--------|--------|--------|-------------|
| 1/2       | -      | -      | -      | -      | 0.068       |
| 3/4       | -      | -      | -      | -      | 0.072       |
| 1         | 1.160  | 0.870  | 1.990  | 1.630  | 0.077       |
| 1-1/2"    | 1.680  | 1.370  | 1.990  | 1.630  | 0.086       |
| 2         | 2.190  | 1.870  | 2.520  | 1.750  | 0.099       |
| 2-1/2"    | 2.710  | 2.370  | 3.050  | 1.750  | 0.149       |
| 3         | 3.220  | 2.870  | 3.580  | 1.810  | 0.181       |
| 4         | 4.260  | 3.830  | 4.690  | 2.130  | 0.299       |
| 6         | -      | -      | -      | -      | 0.362       |
| 8         | -      | -      | -      | -      | 0.680       |

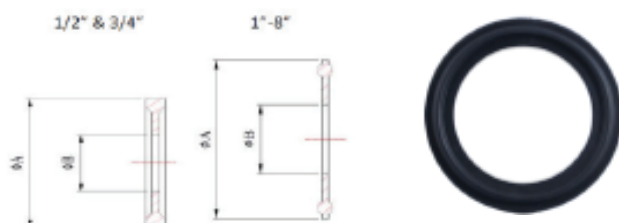
## SANITARY STAINLESS SYSTEMS

### EPDM Gasket



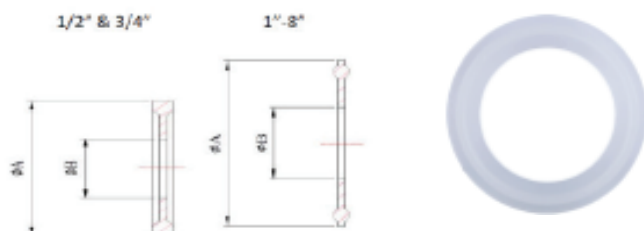
| Size (in) | A (in) | B (in) | Weight (g) |
|-----------|--------|--------|------------|
| 1/2       | 0.860  | 0.390  | 0.907      |
| 3/4       | 0.860  | 0.640  | 0.907      |
| 1         | 1.970  | 0.890  | 4.535      |
| 1-1/2"    | 1.970  | 1.410  | 2.721      |
| 2         | 2.500  | 1.910  | 4.082      |
| 2-1/2"    | 3.000  | 2.410  | 4.989      |
| 3         | 3.500  | 2.910  | 6.350      |
| 4         | 4.650  | 3.880  | 9.525      |
| 6         | 6.500  | 5.820  | 13.607     |

### Buna Gasket



| Size (in) | A (in) | B (in) | Weight (g) |
|-----------|--------|--------|------------|
| 1/2       | 0.860  | 0.390  | 0.907      |
| 3/4       | 0.860  | 0.640  | 0.907      |
| 1         | 1.970  | 0.890  | 4.535      |
| 1-1/2"    | 1.970  | 1.410  | 2.721      |
| 2         | 2.500  | 1.910  | 4.082      |
| 2-1/2"    | 3.000  | 2.410  | 4.989      |
| 3         | 3.500  | 2.910  | 6.350      |
| 4         | 4.650  | 3.880  | 9.525      |
| 6         | 6.500  | 5.820  | 13.607     |
| 8         | 8.500  | 7.820  | 18.143     |

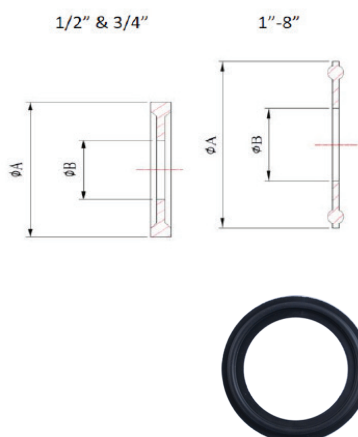
### Silicone Gasket



| Size (in) | A (in) | B (in) | Weight (g) |
|-----------|--------|--------|------------|
| 1         | 1.970  | 0.890  | 4.535      |
| 1-1/2"    | 1.970  | 1.410  | 2.721      |
| 2         | 2.500  | 1.910  | 4.082      |
| 2-1/2"    | 3.000  | 2.410  | 4.989      |
| 3         | 3.500  | 2.910  | 6.350      |
| 4         | 4.650  | 3.880  | 9.525      |

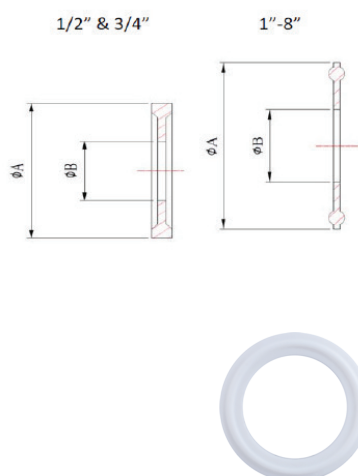
## SANITARY STAINLESS SYSTEMS

### Viton Gasket



| Size (in) | A (in) | B (in) | Weight (g) |
|-----------|--------|--------|------------|
| 1/2       | 0.860  | 0.390  | 1.814      |
| 3/4       | 0.860  | 0.640  | 1.360      |
| 1         | 1.970  | 0.890  | 7.257      |
| 1-1/2"    | 1.970  | 1.410  | 4.989      |
| 2         | 2.500  | 1.910  | 6.350      |
| 2-1/2"    | 3.000  | 2.410  | 8.618      |
| 3         | 3.500  | 2.910  | 10.886     |
| 4         | 4.650  | 3.880  | 16.782     |
| 6         | 6.500  | 5.820  | 22.679     |

### Teflon Gasket



| Size (in) | A (in) | B (in) | Weight (g) |
|-----------|--------|--------|------------|
| 1/2       | 0.860  | 0.390  | 1.814      |
| 3/4       | 0.860  | 0.640  | 3.175      |
| 1         | 1.970  | 0.890  | 9.071      |
| 1-1/2"    | 1.970  | 1.410  | 6.803      |
| 2         | 2.500  | 1.910  | 8.618      |
| 2-1/2"    | 3.000  | 2.410  | 10.886     |
| 3         | 3.500  | 2.910  | 12.700     |
| 4         | 4.650  | 3.880  | 20.865     |
| 6         | 6.500  | 5.820  | 29.483     |
| 8         | 8.500  | 7.820  | 31.751     |



## SANITARY STAINLESS SYSTEMS

### Hex Hanger w/Polypropylene Insert

| Size  | A            | B            | D ± 0.12 | E ± 0.012 | F ± 0.03 | G ± 0.12 |
|-------|--------------|--------------|----------|-----------|----------|----------|
| 1/2   | 2.96 ± 0.12  | 2.1 ± 0.12   | 0.50     | 0.14      | 1.00     | 1.00     |
| 3/4   | 2.93 ± 0.12  | 2.14 ± 0.12  | 0.75     | 0.14      | 1.00     | 1.20     |
| 1     | 3.13 ± 0.12  | 2.32 ± 0.12  | 1.00     | 0.14      | 0.98     | 1.48     |
| 1-1/2 | 3.68 ± 0.12  | 2.89 ± 0.12  | 1.50     | 0.14      | 0.98     | 2.01     |
| 2     | 4.25 ± 0.12  | 3.46 ± 0.12  | 2.00     | 0.14      | 0.98     | 2.50     |
| 2-1/2 | 4.80 ± 0.197 | 4.05 ± 0.12  | 2.50     | 0.14      | 0.98     | 2.95     |
| 3     | 5.51 ± 0.197 | 4.70 ± 0.197 | 3.00     | 0.14      | 0.98     | 3.50     |
| 4     | 6.75 ± 0.197 | 5.94 ± 0.197 | 4.00     | 0.14      | 0.98     | 4.45     |
| 6     | 9.02 ± 0.197 | 8.27 ± 0.197 | 6.00     | 0.14      | 0.98     | 6.34     |

### Hex Hanger w/vinyl Grommet Coupling

| Size  | A            | B            | C ± 0.04 | D ± 0.12 | E ± 0.012 | F ± 0.03 | G ± 0.12 |
|-------|--------------|--------------|----------|----------|-----------|----------|----------|
| 1/2   | 2.93 ± 0.12  | 2.1 ± 0.12   | 0.81     | 0.50     | 0.14      | 1.00     | 1.00     |
| 3/4   | 2.93 ± 0.12  | 2.14 ± 0.12  | 0.81     | 0.75     | 0.14      | 1.00     | 1.20     |
| 1     | 3.13 ± 0.12  | 2.32 ± 0.12  | 0.81     | 1.00     | 0.14      | 0.98     | 1.48     |
| 1-1/2 | 3.68 ± 0.12  | 2.89 ± 0.12  | 0.81     | 1.50     | 0.14      | 0.98     | 2.01     |
| 2     | 4.25 ± 0.12  | 3.46 ± 0.12  | 0.81     | 2.00     | 0.14      | 0.98     | 2.50     |
| 2-1/2 | 4.80 ± 0.197 | 4.05 ± 0.197 | 0.81     | 2.50     | 0.14      | 0.98     | 2.95     |
| 3     | 5.51 ± 0.197 | 4.70 ± 0.197 | 0.81     | 3.00     | 0.14      | 0.98     | 3.50     |
| 4     | 6.75 ± 0.197 | 5.94 ± 0.197 | 0.81     | 4.00     | 0.14      | 0.98     | 4.45     |
| 6     | 9.02 ± 0.197 | 8.27 ± 0.197 | 0.81     | 6.00     | 0.14      | 0.98     | 6.34     |

### Hex Hanger w/Vinyl Grommet

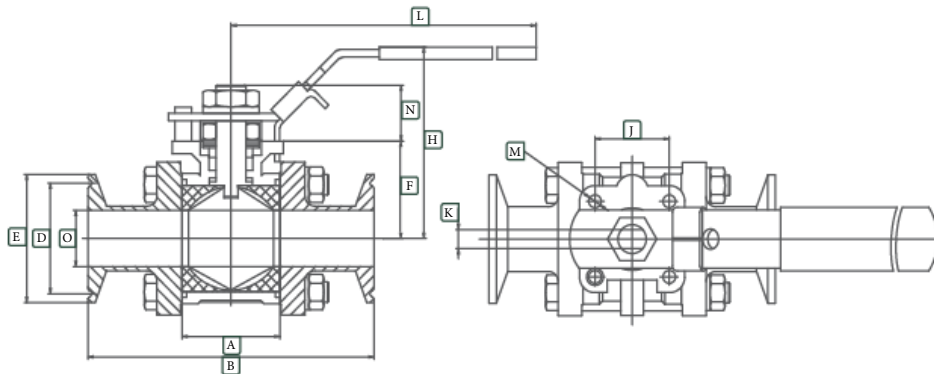
| Size  | A            | B            | D ± 0.12 | E ± 0.012 | F ± 0.03 | G ± 0.12 |
|-------|--------------|--------------|----------|-----------|----------|----------|
| 1/2   | 2.93 ± 0.12  | 2.1 ± 0.12   | 0.50     | 0.14      | 1.00     | 1.00     |
| 3/4   | 2.93 ± 0.12  | 2.14 ± 0.12  | 0.75     | 0.14      | 1.00     | 1.20     |
| 1     | 3.13 ± 0.12  | 2.32 ± 0.12  | 1.00     | 0.14      | 0.98     | 1.48     |
| 1-1/2 | 3.68 ± 0.12  | 2.89 ± 0.12  | 1.50     | 0.14      | 0.98     | 2.01     |
| 2     | 4.25 ± 0.12  | 3.46 ± 0.12  | 2.00     | 0.14      | 0.98     | 2.50     |
| 2-1/2 | 4.80 ± 0.197 | 4.05 ± 0.197 | 2.50     | 0.14      | 0.98     | 2.95     |
| 3     | 5.51 ± 0.197 | 4.70 ± 0.197 | 3.00     | 0.14      | 0.98     | 3.50     |
| 4     | 6.75 ± 0.197 | 5.94 ± 0.197 | 4.00     | 0.14      | 0.98     | 4.45     |
| 6     | 9.02 ± 0.197 | 8.27 ± 0.197 | 6.00     | 0.14      | 0.98     | 6.34     |

## SANITARY

# 3PC BALL VALVE

### FEATURES

- ◆ Tube Full Port
- ◆ 1000 CWP (1/2" - 2")
- ◆ 600 CWP (2-1/2" - 4")
- ◆ 316 stainless steel body
- ◆ Blow out proof stem
- ◆ Clamp, extended Butt-weld or short Butt-weld ends available
- ◆ 3-Piece design
- ◆ ISO 5211 mounting pad
- ◆ Lockable lever or oval handle

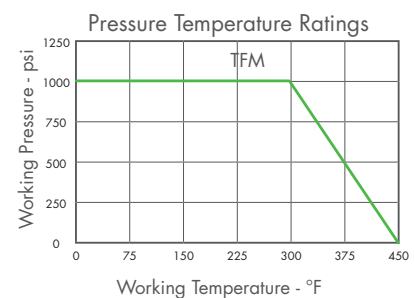


Dimensions (mm)

| Size  | A       | B      | D      | E       | F       | H       | J       | K     | L       | M       | N      | O      |
|-------|---------|--------|--------|---------|---------|---------|---------|-------|---------|---------|--------|--------|
| 1/2   | 24.384  | 88.9   | 20.066 | 24.892  | 28.956  | 61.976  | 36.068  | 5.588 | 124.968 | M5x.8   | 16.51  | 9.398  |
| 3/4   | 26.67   | 101.6  | 20.066 | 24.892  | 30.48   | 63.5    | 36.068  | 5.588 | 124.968 | M5x.8   | 16.51  | 15.748 |
| 1     | 39.116  | 114.3  | 43.434 | 50.8    | 38.1    | 75.184  | 41.91   | 7.62  | 145.034 | M5x.8   | 21.336 | 22.098 |
| 1-1/2 | 54.102  | 139.7  | 43.434 | 50.8    | 48.514  | 92.456  | 50.038  | 8.636 | 189.992 | M6x1.0  | 29.718 | 34.798 |
| 2     | 67.31   | 158.75 | 56.388 | 64.008  | 56.896  | 102.87  | 50.038  | 8.636 | 189.992 | M6x1.0  | 30.226 | 47.498 |
| 2-1/2 | 81.28   | 165.1  | 70.612 | 77.47   | 84.328  | 149.098 | 70.104  | 13.97 | 249.936 | M8x1.25 | 37.338 | 60.198 |
| 3     | 100.838 | 266.7  | 83.312 | 90.678  | 96.012  | 161.798 | 70.104  | 13.97 | 249.936 | M8x1.25 | 37.338 | 72.898 |
| 4     | 120.396 | 317.5  | 110.49 | 118.872 | 116.332 | 186.944 | 101.854 | 19.05 | 287.782 | M10x1.5 | 42.164 | 97.282 |

### Parts & Materials

| No. | Part Name         | Qty  | Material                   |
|-----|-------------------|------|----------------------------|
| 1   | Body              | 1    | CF8M                       |
| 2   | End Cap           | 2    | CF8M                       |
| 3   | Ball              | 1    | 316 Stainless Steel        |
| 4   | Seats             | 2    | TFM / PTFE Cavity Fillers  |
| 5   | Body Seal         | 2    | PTFE                       |
| 6   | Stem              | 1    | 316 Stainless Steel        |
| 7   | Stem Seal         | 1    | PTFE                       |
| 8   | Gland             | 1    | 300 Series Stainless Steel |
| 9   | Handle            | 1    | 300 Series Stainless Steel |
| 10  | Stem Washer       | 1    | 300 Series Stainless Steel |
| 11  | Stem Nut          | 1    | 300 Series Stainless Steel |
| 12  | Bolts Washer      | 4/12 | 300 Series Stainless Steel |
| 13  | Bolts Nut         | 4/12 | 316 Stainless Steel        |
| 14  | Bolts             | 4/6  | 304 Stainless Steel        |
| 15  | Cover             | 1    | PVC                        |
| 16  | Thrust Washer     | 1    | PTFE                       |
| 17  | Belleville Washer | 4    | 300 Series Stainless Steel |
| 18  | Packing Nut       | 1    | 300 Series Stainless Steel |
| 19  | Lock Tab          | 1    | 300 Series Stainless Steel |
| 20  | Stop Pin          | 1    | 300 Series Stainless Steel |



# SANITARY

## CHECK VALVE

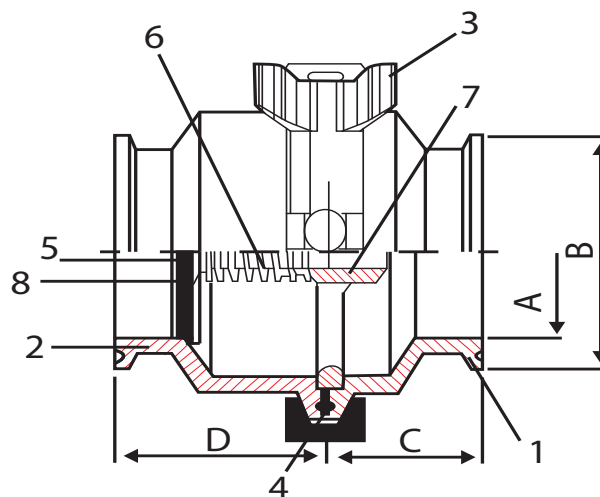
### FEATURES

- ◆ 316 Stainless Steel
- ◆ Tri-Clamp Ends
- ◆ 150 psi at ambient temperature
- ◆ All wetted parts approved for use in food processing
- ◆ All wetted parts polished to 180 grit

### Parts & Materials

| No. | Part Name          |
|-----|--------------------|
| 1   | Short Body         |
| 2   | Long Body          |
| 3   | Clamp              |
| 4   | Clamp Gasket       |
| 5   | Seal-Ring          |
| 6   | Spring             |
| 7   | Flow Support Plate |
| 8   | Disc               |

| Material            |
|---------------------|
| 316 Stainless Steel |
| 316 Stainless Steel |
| 316 Stainless Steel |
| EPDM                |
| EPDM                |
| 316 Stainless Steel |
| 316 Stainless Steel |
| 316 Stainless Steel |



### Dimensions (mm)

| Nominal Tube Size mm | Part Number | A (mm) | B (mm)  | C (mm) | D (mm) | Cracking Pressure psi | Weight LB |
|----------------------|-------------|--------|---------|--------|--------|-----------------------|-----------|
| 1-1/2                | S7745MP6014 | 34.798 | 50.546  | 36.068 | 48.006 | 40.64                 | 66.04     |
| 2                    | S7745MP6020 | 47.498 | 64.008  | 36.068 | 48.006 | 15.24                 | 78.74     |
| 3                    | S7745MP6030 | 72.898 | 90.932  | 36.068 | 48.006 | 20.32                 | 132.08    |
| 4                    | S7745MP6040 | 97.536 | 119.126 | 46.99  | 54.102 | 22.86                 | 264.16    |

## SANITARY

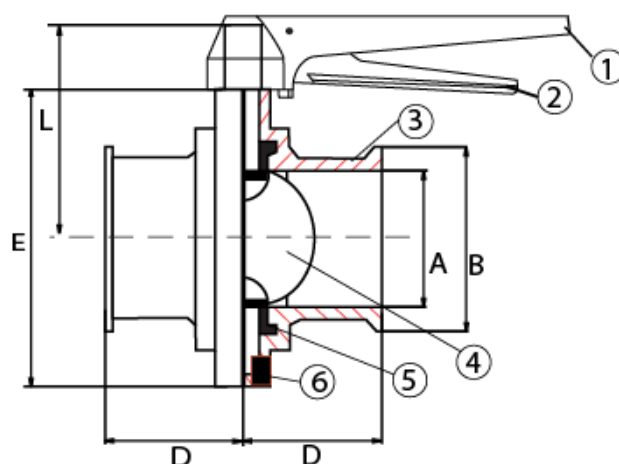
# BUTTERFLY VALVE

### FEATURES

- ◆ Stainless steel precision milled body
- ◆ SCI logo, material grade, size, heat number and country of origin engraved on each valve body
- ◆ Disc fully machined and polished
- ◆ Pull handle 4 position, blue 12 position handle, stainless steel 12 position handle
- ◆ Hygienic seating design



|              |                     |
|--------------|---------------------|
| Port:        | Full Tube Port      |
| Size:        | 1" to 6"            |
| Material:    | 304 Stainless Steel |
| Ends:        | Clamp Ends          |
| Pressure:    | 150 PSI             |
| Temperature: | 200° F              |



Dimensions (mm)

| Nominal Tube Size (mm) | A      | B       | D      | E       | F       |
|------------------------|--------|---------|--------|---------|---------|
| 1                      | 22.098 | 50.546  | 44.45  | 78.994  | 60.96   |
| 1-1/2                  | 34.798 | 50.546  | 44.45  | 85.09   | 64.262  |
| 2                      | 47.498 | 64.008  | 47.498 | 104.902 | 74.422  |
| 2-1/2                  | 60.198 | 77.47   | 48.514 | 112.014 | 77.724  |
| 3                      | 72.136 | 90.932  | 51.562 | 124.968 | 84.836  |
| 4                      | 97.536 | 119.126 | 51.562 | 156.972 | 101.6   |
| 6                      | 147.32 | 166.624 | 71.12  | 219.202 | 134.112 |

Parts & Materials

| No. | Part Name |
|-----|-----------|
| 1   | Handle    |
| 2   | Gripper   |
| 3   | Body      |
| 4   | Disc      |
| 5   | Seat      |
| 6   | Bolt      |