bilfa

Hygienic Process Solutions

# Hygienic Piping, Pipe Fittings

Beverage
Dairy
Beer
Application fields
Water treatment
Food
Cosmetic/Pharmacy

# Contents

DIN Fittings 4

ISO Fittings 36

# DIN Fittings

DIN welded pipe fittings ..... pages 6-12

DIN clamped pipe fittings ..... pages 13-14

DIN female and male connector ..... pages 15

DIN union and accessories ..... pages 16-24

DIN11864-1 aseptic union parts ..... pages 25-27

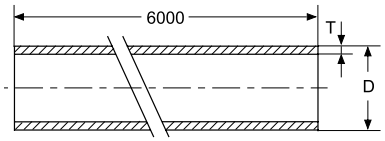
DIN aseptic ferrules and accessories ..... pages 28-29

DIN clamp and accessories ..... pages 30-31

DIN flange and accessories ..... pages 32-35

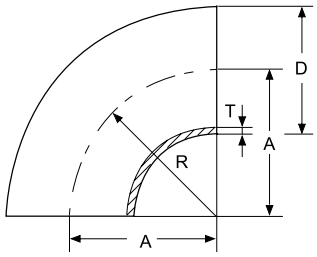
# DIN welded pipe fittings

## DIN11850 pipeline OD x t



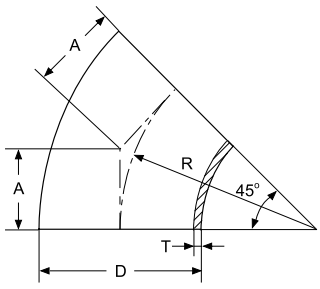

| Size | DxT | A | B | C | kg |
|---|---|---|---|---|---|
| DN10 | 12x1.5 | | | | |
| DN15 | 18x1.5 | | | | |
| DN20 | 22x1.5 | | | | |
| DN25 | 28x1.5 | | | | |
| DN32 | 34x1.5 | | | | |
| DN40 | 40x1.5 | | | | |
| DN50 | 52x1.5 | | | | |
| DN65 | 70x2.0 | | | | |
| DN80 | 85x2.0 | | | | |
| DN100 | 104x2.0 | | | | |
| DN125 | 129x2.0 | | | | |
| DN150 | 154x2.0 | | | | |
| DN200 | 204x2.0 | | | | |
| DN250 | 254x2.0 | | | | |
| DN300 | 306x3.0 | | | | |

## Welded short elbow




| Size | DxT | A | B | R | kg |
|---|---|---|---|---|---|
| DN10 | 12x1.5 | 26 | | 26 | |
| DN15 | 18x1.5 | 35 | | 35 | |
| DN20 | 22x1.5 | 40 | | 40 | |
| DN25 | 28x1.5 | 50 | | 50 | |
| DN32 | 34x1.5 | 55 | | 55 | |
| DN40 | 40x1.5 | 60 | | 60 | |
| DN50 | 52x1.5 | 70 | | 70 | |
| DN65 | 70x2.0 | 80 | | 80 | |
| DN80 | 85x2.0 | 90 | | 90 | |
| DN100 | 104x2.0 | 100 | | 100 | |
| DN125 | 129x2.0 | 187 | | 187 | |
| DN150 | 154x2.0 | 225 | | 225 | |
| DN200 | 204x2.0 | 300 | | 300 | |
| DN250 | 254x2.0 | 375 | | 375 | |

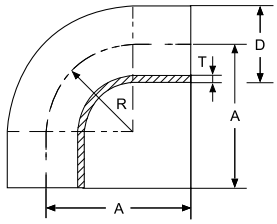
## Welded short elbow




| Size | DxT | A | B | R | kg |
|---|---|---|---|---|---|
| DN10 | 12x1.5 | 10.8 | | 26 | |
| DN15 | 18x1.5 | 14.5 | | 35 | |
| DN20 | 22x1.5 | 16.6 | | 40 | |
| DN25 | 28x1.5 | 20.7 | | 50 | |
| DN32 | 34x1.5 | 22.8 | | 55 | |
| DN40 | 40x1.5 | 24.9 | | 60 | |
| DN50 | 52x1.5 | 29.1 | | 70 | |
| DN65 | 70x2.0 | 33.1 | | 80 | |
| DN80 | 85x2.0 | 37.3 | | 90 | |
| DN100 | 104x2.0 | 41.4 | | 100 | |
| DN125 | 129x2.0 | 77.5 | | 187 | |
| DN150 | 154x2.0 | 93.2 | | 225 | |

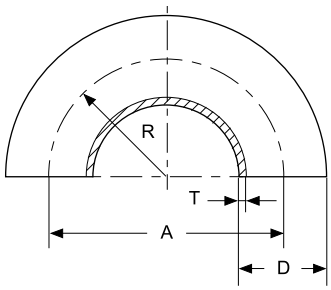
# DIN welded pipe fittings

## Welded long elbow



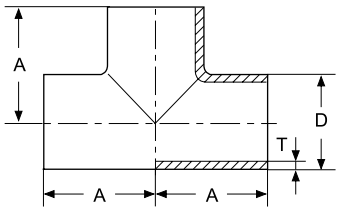

| Size | DxT | A | B | R | kg |
|---|---|---|---|---|---|
| DN10 | 12x1.5 | 38 | | 26 | |
| DN15 | 18x1.5 | 47 | | 35 | |
| DN20 | 22x1.5 | 52 | | 40 | |
| DN25 | 28x1.5 | 70 | | 50 | |
| DN32 | 34x1.5 | 78 | | 55 | |
| DN40 | 40x1.5 | 85 | | 60 | |
| DN50 | 52x1.5 | 97 | | 70 | |
| DN65 | 70x2.0 | 110 | | 80 | |
| DN80 | 85x2.0 | 118 | | 90 | |
| DN100 | 104x2.0 | 140 | | 100 | |

## 180° Welded elbow




| Size | DxT | A | B | R | kg |
|---|---|---|---|---|---|
| DN10 | 12x1.5 | 52 | | 26 | |
| DN15 | 18x1.5 | 70 | | 35 | |
| DN20 | 22x1.5 | 80 | | 40 | |
| DN25 | 28x1.5 | 100 | | 50 | |
| DN32 | 34x1.5 | 110 | | 55 | |
| DN40 | 40x1.5 | 120 | | 60 | |
| DN50 | 52x1.5 | 140 | | 70 | |
| DN65 | 70x2.0 | 160 | | 80 | |
| DN80 | 85x2.0 | 180 | | 90 | |
| DN100 | 104x2.0 | 200 | | 100 | |
| DN125 | 129x2.0 | 375 | | 187 | |
| DN150 | 154x2.0 | 450 | | 225 | |
| DN200 | 204x2.0 | 600 | | 300 | |
| DN250 | 254x2.0 | 750 | | 375 | |

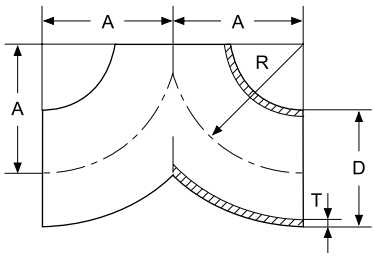
## Welded equal long tee




| Size | DxT | A | B | C | kg |
|---|---|---|---|---|---|
| DN10 | 12x1.5 | 26 | | | |
| DN15 | 18x1.5 | 35 | | | |
| DN20 | 22x1.5 | 40 | | | |
| DN25 | 28x1.5 | 50 | | | |
| DN32 | 34x1.5 | 55 | | | |
| DN40 | 40x1.5 | 60 | | | |
| DN50 | 52x1.5 | 70 | | | |
| DN65 | 70x2.0 | 80 | | | |
| DN80 | 85x2.0 | 90 | | | |
| DN100 | 104x2.0 | 100 | | | |
| DN125 | 129x2.0 | 187 | | | |
| DN150 | 154x2.0 | 225 | | | |
| DN200 | 204x2.0 | 300 | | | |
| DN250 | 254x2.0 | 375 | | | |
| DN300 | 306x3.0 | 375 | | | |

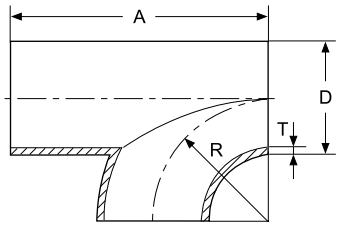
# DIN welded pipe fittings

## Welded R type tee



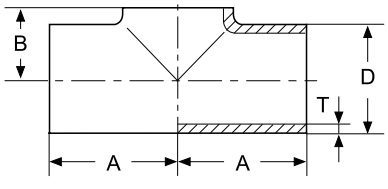

| Size | DxT | A | B | R | kg |
|---|---|---|---|---|---|
| DN10 | 12x1.5 | 26 | | 26 | |
| DN15 | 18x1.5 | 35 | | 35 | |
| DN20 | 22x1.5 | 40 | | 40 | |
| DN25 | 28x1.5 | 50 | | 50 | |
| DN32 | 34x1.5 | 55 | | 55 | |
| DN40 | 40x1.5 | 60 | | 60 | |
| DN50 | 52x1.5 | 70 | | 70 | |
| DN65 | 70x2.0 | 80 | | 80 | |
| DN80 | 85x2.0 | 90 | | 90 | |
| DN100 | 104x2.0 | 100 | | 100 | |
| DN125 | 129x2.0 | 187 | | 187 | |
| DN150 | 154x2.0 | 225 | | 225 | |
| DN200 | 204x2.0 | 300 | | 300 | |
| DN250 | 254x2.0 | 375 | | 375 | |

## Welded R type tee




| Size | DxT | A | B | R | kg |
|---|---|---|---|---|---|
| DN10 | 12x1.5 | 52 | | 26 | |
| DN15 | 18x1.5 | 70 | | 35 | |
| DN20 | 22x1.5 | 80 | | 40 | |
| DN25 | 28x1.5 | 100 | | 50 | |
| DN32 | 34x1.5 | 110 | | 55 | |
| DN40 | 40x1.5 | 120 | | 60 | |
| DN50 | 52x1.5 | 140 | | 70 | |
| DN65 | 70x2.0 | 160 | | 80 | |
| DN80 | 85x2.0 | 180 | | 90 | |
| DN100 | 104x2.0 | 200 | | 100 | |
| DN125 | 129x2.0 | 375 | | 187 | |
| DN150 | 154x2.0 | 450 | | 225 | |
| DN200 | 204x2.0 | 600 | | 300 | |
| DN250 | 254x2.0 | 750 | | 375 | |

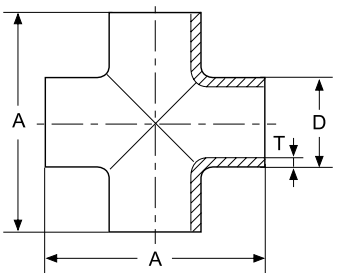
## Welded equal short tee




| Size | DxT | A | B | C | kg |
|---|---|---|---|---|---|
| DN10 | 12x1.5 | 26 | 7.5 | | |
| DN15 | 18x1.5 | 35 | 10.5 | | |
| DN20 | 22x1.5 | 40 | 12.5 | | |
| DN25 | 28x1.5 | 50 | 16 | | |
| DN32 | 34x1.5 | 55 | 19.5 | | |
| DN40 | 40x1.5 | 60 | 22.5 | | |
| DN50 | 52x1.5 | 70 | 30 | | |
| DN65 | 70x2.0 | 80 | 39.5 | | |
| DN80 | 85x2.0 | 90 | 47.5 | | |
| DN100 | 104x2.0 | 100 | 58 | | |
| DN125 | 129x2.0 | 187 | 70.5 | | |
| DN150 | 154x2.0 | 225 | 83 | | |
| DN200 | 204x2.0 | 300 | 110 | | |
| DN250 | 254x2.0 | 375 | 177 | | |
| DN300 | 306x3.0 | 375 | 203 | | |

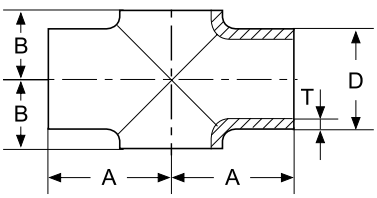
# DIN welded pipe fittings

## Welded equal long cross




| Size | DxT | A | B | C | kg |
|---|---|---|---|---|---|
| DN25 | 28x1.5 | 100 | | | |
| DN32 | 34x1.5 | 110 | | | |
| DN40 | 40x1.5 | 120 | | | |
| DN50 | 52x1.5 | 140 | | | |
| DN65 | 70x2.0 | 160 | | | |
| DN80 | 85x2.0 | 180 | | | |
| DN100 | 104x2.0 | 200 | | | |
| DN125 | 129x2.0 | 375 | | | |
| DN150 | 154x2.0 | 450 | | | |
| DN200 | 204x2.0 | 600 | | | |
| DN250 | 254x2.0 | 750 | | | |
| DN300 | 306x3.0 | 750 | | | |

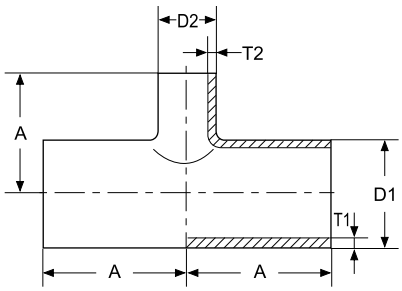
## 焊接短四通 Welded short cross




| Size | DxT | A | B | C | kg |
|---|---|---|---|---|---|
| DN25 | 28x1.5 | 50 | 16 | | |
| DN32 | 34x1.5 | 55 | 19.5 | | |
| DN40 | 40x1.5 | 60 | 22.5 | | |
| DN50 | 52x1.5 | 70 | 30 | | |
| DN65 | 70x2.0 | 80 | 39.5 | | |
| DN80 | 85x2.0 | 90 | 47.5 | | |
| DN100 | 104x2.0 | 100 | 58 | | |
| DN125 | 129x2.0 | 187 | 70.5 | | |
| DN150 | 154x2.0 | 225 | 83 | | |
| DN200 | 204x2.0 | 300 | 115 | | |
| DN250 | 254x2.0 | 375 | 140 | | |
| DN300 | 306x3.0 | 375 | 203 | | |

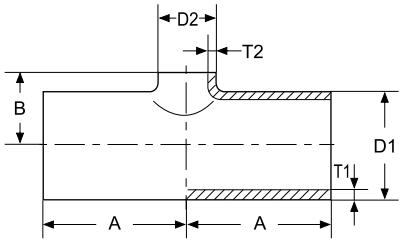
# DIN welded pipe fittings

## Welded reducing long tee




| Size | D1×T1 | D2×T2 | A | B | C | kg |
|---|---|---|---|---|---|---|
| DN25/20 | 28×1.5 | 22×1.5 | 50 | | | |
| DN32/25 | 34×1.5 | 28×1.5 | 55 | | | |
| DN40/25 | 40×1.5 | 28×1.5 | 60 | | | |
| DN40/32 | 40×1.5 | 34×1.5 | 60 | | | |
| DN50/25 | 52×1.5 | 28×1.5 | 70 | | | |
| DN50/32 | 52x1.5 | 34x1.5 | 70 | | | |
| DN50/40 | 52×1.5 | 40×1.5 | 70 | | | |
| DN65/25 | 70×2.0 | 28×1.5 | 80 | | | |
| DN65/40 | 70×2.0 | 40×1.5 | 80 | | | |
| DN65/50 | 70×2.0 | 52×1.5 | 80 | | | |
| DN80/25 | 85×2.0 | 28×1.5 | 90 | | | |
| DN80/40 | 85×2.0 | 40×1.5 | 90 | | | |
| DN80/50 | 85×2.0 | 52×1.5 | 90 | | | |
| DN80/65 | 85×2.0 | 70×2.0 | 90 | | | |
| DN100/25 | 104×2.0 | 28×1.5 | 100 | | | |
| DN100/40 | 104×2.0 | 40×1.5 | 100 | | | |
| DN100/50 | 104×2.0 | 52×1.5 | 100 | | | |
| DN100/65 | 104×2.0 | 70×2.0 | 100 | | | |
| DN100/80 | 104×2.0 | 85×2.0 | 100 | | | |
| DN125/25 | 129×2.0 | 28×1.5 | 187 | | | |
| DN125/40 | 129×2.0 | 40×1.5 | 187 | | | |
| DN125/50 | 129×2.0 | 52×1.5 | 187 | | | |
| DN125/65 | 129×2.0 | 70×2.0 | 187 | | | |
| DN125/80 | 129×2.0 | 85×2.0 | 187 | | | |
| DN125/100 | 129×2.0 | 104×2.0 | 187 | | | |
| DN150/25 | 154×2.0 | 28×1.5 | 225 | | | |
| DN150/40 | 154×2.0 | 40×1.5 | 225 | | | |
| DN150/50 | 154×2.0 | 52×1.5 | 225 | | | |
| DN150/65 | 154×2.0 | 70×2.0 | 225 | | | |
| DN150/80 | 154×2.0 | 85×2.0 | 225 | | | |
| DN150/100 | 154×2.0 | 104×2.0 | 225 | | | |
| DN150/125 | 154×2.0 | 129×2.0 | 225 | | | |

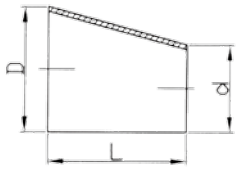
## Welded reducing short tee(pulled end)



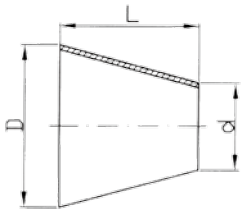

| Size | D1×T1 | D2×T2 | A | B | C | kg |
|---|---|---|---|---|---|---|
| DN25/20 | 28×1.5 | 22×1.5 | 50 | 16 | | |
| DN32/25 | 34×1.5 | 28×1.5 | 55 | 19 | | |
| DN40/25 | 40×1.5 | 28×1.5 | 60 | 23 | | |
| DN40/32 | 40×1.5 | 34×1.5 | 60 | 23 | | |
| DN50/25 | 52×1.5 | 28×1.5 | 70 | 29 | | |
| DN50/32 | 52x1.5 | 34x1.5 | 70 | 29 | | |
| DN50/40 | 52×1.5 | 40×1.5 | 70 | 29 | | |
| DN65/25 | 70×2.0 | 28×1.5 | 80 | 38 | | |
| DN65/40 | 70×2.0 | 40×1.5 | 80 | 39.5 | | |
| DN65/50 | 70×2.0 | 52×1.5 | 80 | 39 | | |
| DN80/25 | 85×2.0 | 28×1.5 | 90 | 46.5 | | |
| DN80/40 | 85×2.0 | 40×1.5 | 90 | 46.5 | | |
| DN80/50 | 85×2.0 | 52×1.5 | 90 | 46.5 | | |
| DN80/65 | 85×2.0 | 70×2.0 | 90 | 46.5 | | |
| DN100/25 | 104×2.0 | 28×1.5 | 100 | 56 | | |
| DN100/40 | 104×2.0 | 40×1.5 | 100 | 56 | | |
| DN100/50 | 104×2.0 | 52×1.5 | 100 | 56 | | |
| DN100/65 | 104×2.0 | 70×2.0 | 100 | 56 | | |
| DN100/80 | 104×2.0 | 85×2.0 | 100 | 56 | | |
| DN125/25 | 129×2.0 | 28×1.5 | 187 | 68.5 | | |
| DN125/40 | 129×2.0 | 40×1.5 | 187 | 69.5 | | |
| DN125/50 | 129×2.0 | 52×1.5 | 187 | 69.5 | | |
| DN125/65 | 129×2.0 | 70×2.0 | 187 | 71.5 | | |
| DN125/80 | 129×2.0 | 85×2.0 | 187 | 71.5 | | |
| DN125/100 | 129×2.0 | 104×2.0 | 187 | 72.5 | | |
| DN150/25 | 154×2.0 | 28×1.5 | 225 | 82 | | |
| DN150/40 | 154×2.0 | 40×1.5 | 225 | 82 | | |
| DN150/50 | 154×2.0 | 52×1.5 | 225 | 82 | | |
| DN150/65 | 154×2.0 | 70×2.0 | 225 | 81 | | |
| DN150/80 | 154×2.0 | 85×2.0 | 225 | 81 | | |
| DN150/100 | 154×2.0 | 104×2.0 | 225 | 81 | | |
| DN150/125 | 154×2.0 | 129×2.0 | 225 | 84 | | |

# DIN welded pipe fittings

## Welded reducer without straight ends



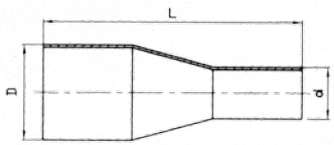

Eccentric



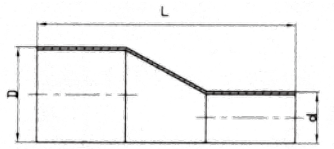

Concentric

| Size | D | d | L | Size | D | d | L | kg |
|---|---|---|---|---|---|---|---|---|
| DN15-DN10 | 18 | 12 | 11 | DN65-DN32 | 70 | 34 | 62 | |
| DN20-DN10 | 22 | 12 | 18 | DN65-DN40 | 70 | 40 | 51 | |
| DN20-DN15 | 22 | 18 | 7 | DN65-DN50 | 70 | 52 | 29 | |
| DN25-DN15 | 28 | 18 | 18 | DN80-DN40 | 85 | 40 | 78 | |
| DN25-DN20 | 28 | 22 | 11 | DN80-DN50 | 85 | 52 | 56 | |
| DN32-DN20 | 34 | 22 | 22 | DN80-DN65 | 85 | 70 | 27 | |
| DN32-DN25 | 34 | 28 | 11 | DN100-DN50 | 104 | 52 | 90 | |
| DN40-DN20 | 40 | 22 | 33 | DN100-DN65 | 104 | 70 | 61 | |
| DN40-DN25 | 40 | 28 | 22 | DN100-DN80 | 104 | 85 | 34 | |
| DN40-DN32 | 40 | 34 | 11 | DN125-DN80 | 129 | 85 | 80 | |
| DN50-DN25 | 52 | 28 | 44 | DN125-DN100 | 129 | 104 | 45 | |
| DN50-DN32 | 52 | 34 | 33 | DN150-DN100 | 154 | 104 | 90 | |
| DN50-DN40 | 52 | 40 | 22 | DN150-DN125 | 154 | 129 | 45 | |
| DN65-DN25 | 70 | 28 | 73 | DN200-DN150 | 204 | 154 | 90 | |

## Welded reducer with straight ends




Eccentric

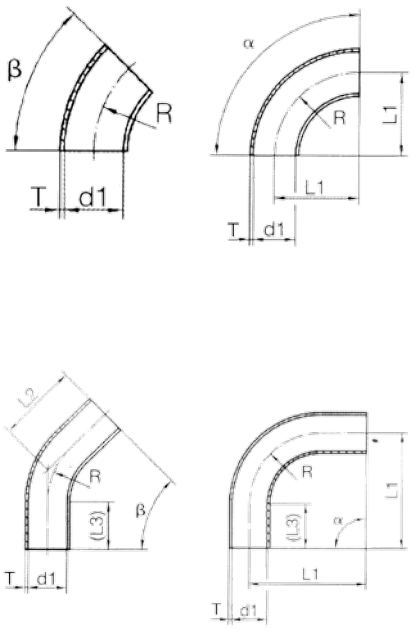



Concentric

| Size | D | d | L | Size | D | d | L | kg |
|---|---|---|---|---|---|---|---|---|
| DN20-DN15 | 22 | 18 | 60 | DN65-DN40 | 70 | 40 | 120 | |
| DN25-DN20 | 28 | 22 | 60 | DN65-DN50 | 70 | 52 | 120 | |
| DN32-DN20 | 34 | 22 | 80 | DN80-DN40 | 85 | 40 | 140 | |
| DN32-DN25 | 34 | 28 | 80 | DN80-DN50 | 85 | 52 | 125 | |
| DN40-DN20 | 40 | 22 | 102 | DN80-DN65 | 85 | 70 | 120 | |
| DN40-DN25 | 40 | 28 | 102 | DN100-DN50 | 104 | 52 | 160 | |
| DN40-DN32 | 40 | 34 | 102 | DN100-DN65 | 104 | 70 | 127 | |
| DN50-DN25 | 52 | 28 | 115 | DN100-DN80 | 104 | 85 | 120 | |
| DN50-DN32 | 52 | 34 | 115 | DN125-DN80 | 129 | 85 | 150 | |
| DN50-DN40 | 52 | 40 | 115 | DN125-DN100 | 129 | 104 | 150 | |
| DN65-DN25 | 70 | 28 | 125 | DN150-DN100 | 154 | 104 | 170 | |
| DN65-DN32 | 70 | 34 | 125 | DN150-DN125 | 154 | 129 | 170 | |

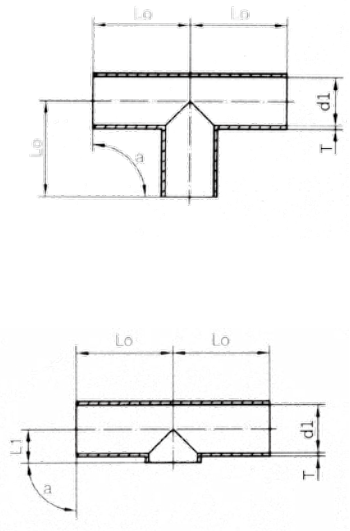
# DIN welded pipe fittings

## Welded Elbow




| Size | OD×T | d1 | S | R | L0 | L1 | L2 | L3 | L4 | kg |
|---|---|---|---|---|---|---|---|---|---|---|
| DN10 | 13×1.5 | 10 | 1.5 | 26 | 26 | 51 | 35.8 | 25 | 52 | |
| DN15 | 19×1.5 | 16 | 1.5 | 35 | 35 | 60 | 39.5 | 25 | 70 | |
| DN20 | 23×1.5 | 20 | 1.5 | 40 | 40 | 65 | 41.6 | 25 | 80 | |
| DN25 | 29×1.5 | 26 | 1.5 | 50 | 50 | 90 | 60.7 | 40 | 100 | |
| DN32 | 35×1.5 | 32 | 1.5 | 55 | 55 | 95 | 62.8 | 40 | 110 | |
| DN40 | 41×1.5 | 38 | 1.5 | 60 | 60 | 100 | 64.9 | 40 | 120 | |
| DN50 | 53×1.5 | 50 | 1.5 | 70 | 70 | 110 | 69 | 40 | 140 | |
| DN65 | 70×2.0 | 66 | 2.0 | 80 | 80 | 120 | 73.1 | 40 | 160 | |
| DN80 | 85×2.0 | 81 | 2.0 | 90 | 90 | 145 | 92.3 | 55 | 180 | |
| DN100 | 104×2.0 | 100 | 2.0 | 100 | 100 | 155 | 96.4 | 55 | 200 | |
| DN125 | 129×2.0 | 125 | 2.0 | 187 | 187 | 245 | 135.2 | 57.5 | 375 | |
| DN150 | 154×2.0 | 150 | 2.0 | 225 | 225 | - | - | - | - | |
| DN200 | 204×2.0 | 200 | 2.0 | 300 | 300 | - | - | - | - | |

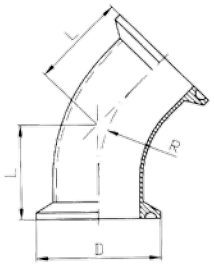
## Welded tee




| Size | OD×T | d1 | S | L0 | L1 | kg |
|---|---|---|---|---|---|---|
| DN10 | 13×1.5 | 10 | 1.5 | 35 | 11.0±0.5 | |
| DN15 | 19×1.5 | 16 | 1.5 | 35 | 11.0±0.5 | |
| DN20 | 23×1.5 | 20 | 1.5 | 40 | 13.0±0.5 | |
| DN25 | 29×1.5 | 26 | 1.5 | 50 | 16.0±0.75 | |
| DN32 | 35×1.5 | 32 | 1.5 | 55 | 19.5±0.75 | |
| DN40 | 41×1.5 | 38 | 1.5 | 60 | 23.0±1 | |
| DN50 | 53×1.5 | 50 | 1.5 | 70 | 30.0±1 | |
| DN65 | 70×2.0 | 66 | 2.0 | 80 | 40.0±1.5 | |
| DN80 | 85×2.0 | 81 | 2.0 | 90 | 47.5±1.5 | |
| DN100 | 104×2.0 | 100 | 2.0 | 100 | 58.0±1.5 | |
| DN125 | 129×2.0 | 125 | 2.0 | 187 | 74.0±3 | |
| DN150 | 154×2.0 | 150 | 2.0 | 225 | 90.0±3 | |
| DN200 | 204×2.0 | 200 | 2.0 | 300 | 115.0±3.75 | |

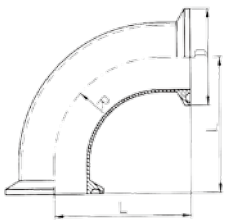
# DIN Clamped Pipe Fittings

## Clamped Elbow (45° )



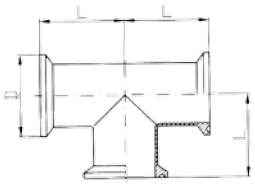
| Size | D | L | R | kg |
|---|---|---|---|---|
| DN10 | 34 | 28.7 | 26 | |
| DN15 | 34 | 32.5 | 35 | |
| DN20 | 34 | 34.5 | 40 | |
| DN25 | 50.5 | 42.2 | 50 | |
| DN32 | 50.5 | 44.3 | 55 | |
| DN40 | 50.5 | 46.3 | 60 | |
| DN50 | 64 | 50.5 | 70 | |
| DN65 | 91 | 61.2 | 80 | |
| DN80 | 106 | 65.3 | 90 | |
| DN100 | 119 | 69.5 | 100 | |
| DN125 | 144.5 | 115.5 | 187 | |
| DN150 | 167 | 131.2 | 225 | |

## Clamped Elbow (90° )



| Size | D | L | R | kg |
|---|---|---|---|---|
| DN10 | 34 | 44 | 26 | |
| DN15 | 34 | 53 | 35 | |
| DN20 | 34 | 58 | 40 | |
| DN25 | 50.5 | 71 | 50 | |
| DN32 | 50.5 | 76.5 | 55 | |
| DN40 | 50.5 | 81.5 | 60 | |
| DN50 | 64 | 91.5 | 70 | |
| DN65 | 91 | 108 | 80 | |
| DN80 | 106 | 118 | 90 | |
| DN100 | 119 | 128 | 100 | |
| DN125 | 144.5 | 225 | 187 | |
| DN150 | 167 | 263 | 225 | |
| DN200 | 217.5 | 338 | 300 | |

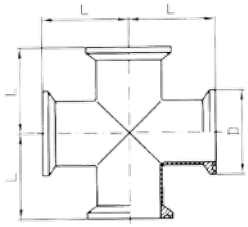
## Clamped Tee



| Size | D | L | kg |
|---|---|---|---|
| DN10 | 34 | 44 | |
| DN15 | 34 | 53 | |
| DN20 | 34 | 58 | |
| DN25 | 50.5 | 71.5 | |
| DN32 | 50.5 | 76.5 | |
| DN40 | 50.5 | 81.5 | |
| DN50 | 64 | 91.5 | |
| DN65 | 91 | 108 | |
| DN80 | 106 | 118 | |
| DN100 | 119 | 128 | |
| DN125 | 144.5 | 225 | |
| DN150 | 167 | 263 | |

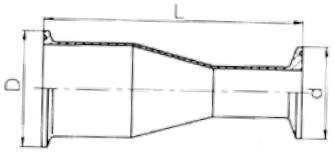
# DIN Clamped Pipe Fittings

## Clamped Cross

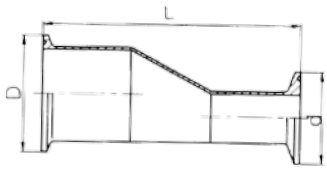



| Size | D | L | kg |
|---|---|---|---|
| DN10 | 34 | 44 | |
| DN15 | 34 | 53 | |
| DN20 | 34 | 58 | |
| DN25 | 50.5 | 71.5 | |
| DN32 | 50.5 | 76.5 | |
| DN40 | 50.5 | 81.5 | |
| DN50 | 64 | 91.5 | |
| DN65 | 91 | 108 | |
| DN80 | 106 | 118 | |
| DN100 | 119 | 128 | |
| DN125 | 144.5 | 225 | |
| DN150 | 167 | 263 | |

## Clamped Reducer




Concentric

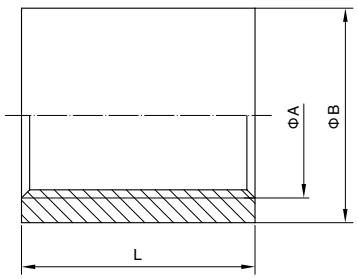



Eccentric

| Size | D | d | L | kg |
|---|---|---|---|---|
| DN20-DN15 | 34 | 34 | 86 | |
| DN25-DN20 | 34 | 34 | 86 | |
| DN32-DN20 | 34 | 34 | 106 | |
| DN32-DN25 | 50.5 | 50.5 | 106 | |
| DN40-DN20 | 50.5 | 34 | 128 | |
| DN40-DN25 | 50.5 | 50.5 | 128 | |
| DN40-DN32 | 50.5 | 50.5 | 128 | |
| DN50-DN25 | 64 | 50.5 | 141 | |
| DN50-DN32 | 64 | 50.5 | 141 | |
| DN50-DN40 | 64 | 50.5 | 141 | |
| DN65-DN25 | 91 | 50.5 | 151 | |
| DN65-DN32 | 91 | 50.5 | 151 | |
| DN65-DN40 | 91 | 50.5 | 146 | |
| DN65-DN50 | 91 | 64 | 146 | |
| DN80-DN40 | 106 | 50.5 | 166 | |
| DN80-DN50 | 106 | 64 | 151 | |
| DN80-DN65 | 106 | 91 | 146 | |
| DN100-DN50 | 119 | 64 | 192 | |
| DN100-DN65 | 119 | 91 | 159 | |
| DN100-DN80 | 119 | 106 | 152 | |

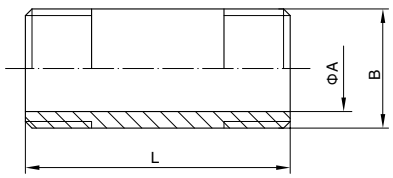
# DIN female and male connector

## Full female connector



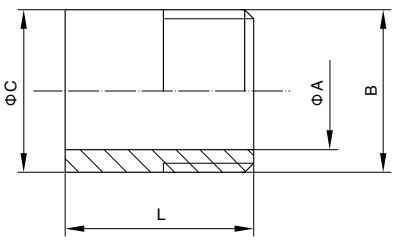

| Size | A | B | L | kg |
|---|---|---|---|---|
| DN10 | R3/8" | 21.3 | 26 | |
| DN15 | R1/2" | 26.4 | 34 | |
| DN20 | R3/4" | 31.8 | 36 | |
| DN25 | R1.0" | 39.5 | 43 | |
| DN32 | R1–1/4" | 48.3 | 48 | |
| DN40 | R1–1/2" | 54.5 | 48 | |
| DN50 | R2.0" | 68.3 | 56 | |
| DN65 | R2–1/2" | 82 | 65 | |
| DN80 | R3.0" | 95 | 71 | |
| DN100 | R4.0" | 122 | 83 | |

## Double ends male connector




| Size | A | B | L | kg |
|---|---|---|---|---|
| DN6 | 6.2 | R1/8" | 30 | |
| DN8 | 8.9 | R1/4" | 30 | |
| DN10 | 12.6 | R3/8" | 40 | |
| DN15 | 16.1 | R1/2" | 60 | |
| DN20 | 21.7 | R3/4" | 60 | |
| DN25 | 27.3 | R1.0" | 60 | |
| DN32 | 36.0 | R1–1/4" | 80 | |
| DN40 | 41.9 | R1–1/2" | 80 | |
| DN50 | 53.1 | R2.0" | 100 | |
| DN65 | 68.9 | R2–1/2" | 100 | |
| DN80 | 80.9 | R3.0" | 120 | |
| DN100 | 105.3 | R4.0" | 120 | |

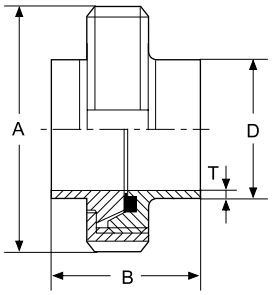
## Single end male connector




| Size | A | B | C | L | kg |
|---|---|---|---|---|---|
| DN6 | 6.2 | R1/8" | 10.2 | 30 | |
| DN8 | 8.9 | R1/4" | 13.5 | 30 | |
| DN10 | 12.6 | R3/8" | 17.2 | 30 | |
| DN15 | 16.1 | R1/2" | 21.3 | 35 | |
| DN20 | 21.7 | R3/4" | 26.9 | 40 | |
| DN25 | 27.3 | R1.0" | 33.7 | 40 | |
| DN32 | 36.0 | R1–1/4" | 42.4 | 50 | |
| DN40 | 41.9 | R1–1/2" | 48.3 | 50 | |
| DN50 | 53.1 | R2.0" | 60.3 | 55 | |
| DN65 | 68.9 | R2–1/2" | 76.1 | 60 | |
| DN80 | 80.9 | R3.0" | 88.9 | 65 | |
| DN100 | 105.3 | R4.0" | 114.3 | 90 | |

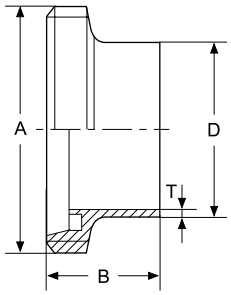
# DIN union and accessories

## Union assembly (long type)



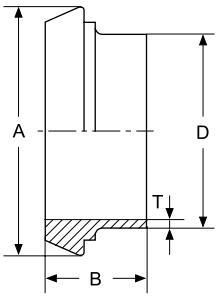

| Size | DxT | A | B | C | kg |
|---|---|---|---|---|---|
| DN10 | 12x1.5 | 38 | 34 | | |
| DN15 | 18x1.5 | 44 | 34 | | |
| DN20 | 22x1.5 | 54 | 36 | | |
| DN25 | 28x1.5 | 63 | 45 | | |
| DN32 | 34x1.5 | 68 | 51 | | |
| DN40 | 40x1.5 | 78 | 53 | | |
| DN50 | 52x1.5 | 92 | 57 | | |
| DN65 | 70x2.0 | 112 | 65 | | |
| DN80 | 85x2.0 | 127 | 75 | | |
| DN100 | 104x2.0 | 148 | 89 | | |
| DN125 | 129x2.0 | 178 | 70 | | |
| DN150 | 154x2.0 | 210 | 76 | | |

## Male (long type)




| Size | DxT | A | B | C | kg |
|---|---|---|---|---|---|
| DN10 | 12x1.5 | Rd28×1/8" | 21 | | |
| DN15 | 18x1.5 | Rd34×1/8" | 21 | | |
| DN20 | 22x1.5 | Rd44×1/6" | 24 | | |
| DN25 | 28x1.5 | Rd52×1/6" | 29 | | |
| DN32 | 34x1.5 | Rd58×1/6" | 32 | | |
| DN40 | 40x1.5 | Rd65×1/6" | 33 | | |
| DN50 | 52x1.5 | Rd78×1/6" | 35 | | |
| DN65 | 70x2.0 | Rd95×1/6" | 40 | | |
| DN80 | 85x2.0 | Rd110×1/4" | 45 | | |
| DN100 | 104x2.0 | Rd130×1/4" | 54 | | |
| DN125 | 129x2.0 | Rd160×1/4" | 46 | | |
| DN150 | 154x2.0 | Rd190×1/4" | 50 | | |

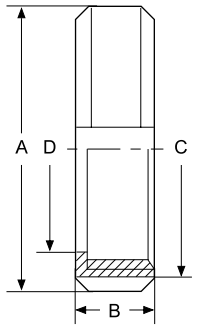
## Liner (long type)




| Size | DxT | A | B | C | kg |
|---|---|---|---|---|---|
| DN10 | 12x1.5 | 22 | 17 | | |
| DN15 | 18x1.5 | 28.5 | 17 | | |
| DN20 | 22x1.5 | 36.5 | 18 | | |
| DN25 | 28x1.5 | 44 | 22 | | |
| DN32 | 34x1.5 | 50 | 25 | | |
| DN40 | 40x1.5 | 56 | 26 | | |
| DN50 | 52x1.5 | 68 | 28 | | |
| DN65 | 70x2.0 | 86 | 32 | | |
| DN80 | 85x2.0 | 100 | 37 | | |
| DN100 | 104x2.0 | 121 | 44 | | |
| DN125 | 129x2.0 | 150 | 34 | | |
| DN150 | 154x2.0 | 176 | 37 | | |

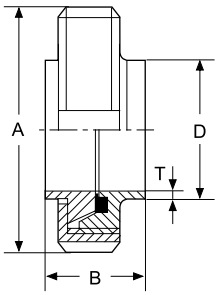
# DIN union and accessories

## Round Nut



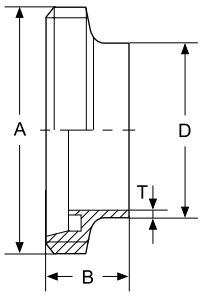

| Size | DxT | A | B | C | kg |
|---|---|---|---|---|---|
| DN10 | 19 | 38 | 18 | Rd28×1/8" | |
| DN15 | 25 | 44 | 18 | Rd34×1/8" | |
| DN20 | 31 | 54 | 20 | Rd44×1/6" | |
| DN25 | 36 | 63 | 21 | Rd52×1/6" | |
| DN32 | 42 | 70 | 21 | Rd58×1/6" | |
| DN40 | 49 | 78 | 21 | Rd65×1/6" | |
| DN50 | 62 | 92 | 22 | Rd78×1/6" | |
| DN65 | 80 | 112 | 25 | Rd95×1/6" | |
| DN80 | 94 | 127 | 29 | Rd110×1/4" | |
| DN100 | 115 | 148 | 31 | Rd130×1/4" | |
| DN125 | 138 | 178 | 34 | Rd160×1/4" | |
| DN150 | 164 | 210 | 40 | Rd190×1/4" | |

## Union assembly (short type)




| Size | DxT | A | B | C | kg |
|---|---|---|---|---|---|
| DN10 | 12x1.5 | 38 | 25 | | |
| DN15 | 18x1.5 | 44 | 25 | | |
| DN20 | 22x1.5 | 54 | 25 | | |
| DN25 | 28x1.5 | 63 | 31 | | |
| DN32 | 34x1.5 | 70 | 31 | | |
| DN40 | 40x1.5 | 78 | 31 | | |
| DN50 | 52x1.5 | 92 | 33 | | |
| DN65 | 70x2.0 | 112 | 35 | | |
| DN80 | 85x2.0 | 127 | 35 | | |
| DN100 | 104x2.0 | 148 | 41 | | |
| DN125 | 129x2.0 | 178 | 49 | | |
| DN150 | 154x2.0 | 210 | 50 | | |

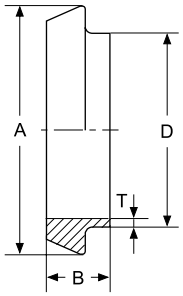
## Male (short type)




| Size | DxT | A | B | C | kg |
|---|---|---|---|---|---|
| DN10 | 12x1.5 | Rd28×1/8" | 17 | | |
| DN15 | 18x1.5 | Rd34×1/8" | 17 | | |
| DN20 | 22x1.5 | Rd44×1/6" | 19 | | |
| DN25 | 28x1.5 | Rd52×1/6" | 22 | | |
| DN32 | 34x1.5 | Rd58×1/6" | 22 | | |
| DN40 | 40x1.5 | Rd65×1/6" | 22 | | |
| DN50 | 52x1.5 | Rd78×1/6" | 23 | | |
| DN65 | 70x2.0 | Rd95×1/6" | 25 | | |
| DN80 | 85x2.0 | Rd110×1/4" | 25 | | |
| DN100 | 104x2.0 | Rd130×1/4" | 30 | | |
| DN125 | 129x2.0 | Rd160×1/4" | 35.5 | | |
| DN150 | 154x2.0 | Rd190×1/4" | 40 | | |

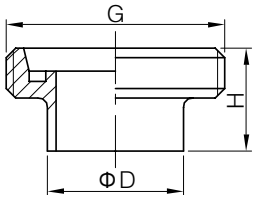
# DIN union and accessories

## Liner (short type)



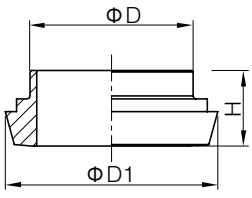

| Size | DxT | A | B | C | kg |
|---|---|---|---|---|---|
| DN10 | 12x1.5 | 22 | 13 | | |
| DN15 | 18x1.5 | 28.5 | 14 | | |
| DN20 | 22x1.5 | 36.5 | 15 | | |
| DN25 | 28x1.5 | 44 | 17 | | |
| DN32 | 34x1.5 | 50 | 17 | | |
| DN40 | 40x1.5 | 56 | 17 | | |
| DN50 | 52x1.5 | 68.5 | 17 | | |
| DN65 | 70x2.0 | 86 | 17 | | |
| DN80 | 85x2.0 | 100 | 20 | | |
| DN100 | 104x2.0 | 121 | 24 | | |
| DN125 | 129x2.0 | 150 | 24 | | |
| DN150 | 154x2.0 | 176 | 24 | | |

## Male (long and thick type)




| Size | D | G | H | kg |
|---|---|---|---|---|
| DN10 | 15 | Rd28×1/8 | 21 | |
| DN15 | 21 | Rd34×1/8 | 21 | |
| DN20 | 25 | Rd44×1/6 | 24 | |
| DN25 | 31 | Rd52×1/6 | 29 | |
| DN32 | 37 | Rd58×1/6 | 32 | |
| DN40 | 43 | Rd65×1/6 | 33 | |
| DN50 | 55 | Rd78×1/6 | 35 | |
| DN65 | 72 | Rd95×1/6 | 40 | |
| DN80 | 87 | Rd110×1/4 | 45 | |
| DN100 | 106 | Rd130×1/4 | 54 | |
| DN125 | 132 | Rd160×1/4 | 46 | |
| DN150 | 157 | Rd190×1/4 | 50 | |

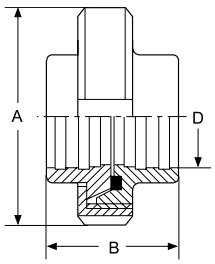
## Liner (long and thick type)




| Size | D | D1 | H | kg |
|---|---|---|---|---|
| DN10 | 15 | 22 | 17 | |
| DN15 | 21 | 28 | 17 | |
| DN20 | 25 | 36 | 18 | |
| DN25 | 31 | 43 | 22 | |
| DN32 | 37 | 49 | 25 | |
| DN40 | 43 | 55 | 26 | |
| DN50 | 55 | 68 | 28 | |
| DN65 | 72 | 85 | 32 | |
| DN80 | 87 | 100 | 37 | |
| DN100 | 106 | 120 | 44 | |
| DN125 | 132 | 149 | 34 | |
| DN150 | 157 | 176 | 37 | |

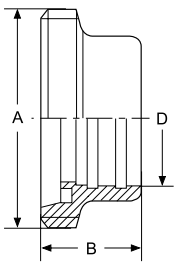
# DIN union and accessories

## Expanded union assembly



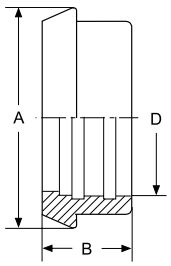

| Size | D | T | A | B | C | kg |
|---|---|---|---|---|---|---|
| DN25 | 28.2 | | 63 | 45 | | |
| DN32 | 34.2 | | 70 | 51 | | |
| DN40 | 40.2 | | 78 | 53 | | |
| DN50 | 52.2 | | 92 | 57 | | |
| DN65 | 70.3 | | 112 | 65 | | |
| DN80 | 85.3 | | 127 | 75 | | |
| DN100 | 104.3 | | 148 | 89 | | |

## Expanded male



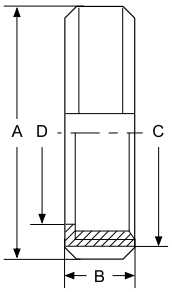

| Size | D | T | A | B | C | kg |
|---|---|---|---|---|---|---|
| DN25 | 28.2 | | Rd52×1/6" | 29 | | |
| DN32 | 34.2 | | Rd58×1/6" | 32 | | |
| DN40 | 40.2 | | Rd65×1/6" | 33 | | |
| DN50 | 52.2 | | Rd78×1/6" | 35 | | |
| DN65 | 70.3 | | Rd95×1/6" | 40 | | |
| DN80 | 85.3 | | Rd110×1/4" | 45 | | |
| DN100 | 104.3 | | Rd130×1/4" | 54 | | |

## Expanded liner




| Size | D | T | A | B | C | kg |
|---|---|---|---|---|---|---|
| DN25 | 28.2 | | 44 | 22 | | |
| DN32 | 34.2 | | 50 | 25 | | |
| DN40 | 40.2 | | 56 | 26 | | |
| DN50 | 52.2 | | 68 | 28 | | |
| DN65 | 70.3 | | 86 | 32 | | |
| DN80 | 85.3 | | 100 | 37 | | |
| DN100 | 104.3 | | 121 | 44 | | |

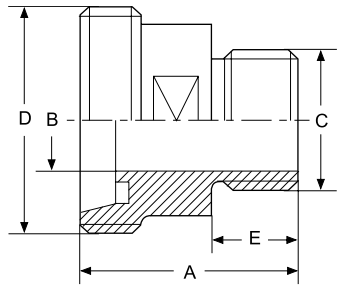
## Expanded nut




| Size | D | T | A | B | C | kg |
|---|---|---|---|---|---|---|
| DN25 | 36 | | 63 | 21 | Rd52×1/6" | |
| DN32 | 42 | | 70 | 21 | Rd58×1/6" | |
| DN40 | 49 | | 78 | 21 | Rd65×1/6" | |
| DN50 | 62 | | 92 | 22 | Rd78×1/6" | |
| DN65 | 80 | | 112 | 25 | Rd95×1/6" | |
| DN80 | 94 | | 127 | 29 | Rd110×1/4" | |
| DN100 | 115 | | 148 | 31 | Rd130×1/4" | |

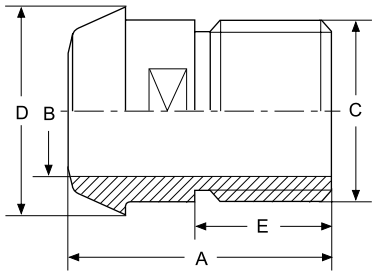
# DIN union and accessories

## Male type ball valve adapter



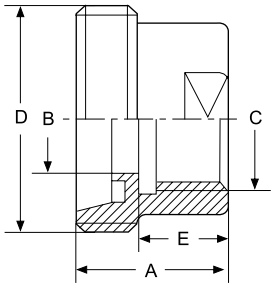

| Size | D | A | B | C | E | kg |
|---|---|---|---|---|---|---|
| DN10 | Rd28×1/8$^{s}$ | 36 | 9 | R$^{3}/_{8}$" | 12 | |
| DN15 | Rd34×1/8$^{s}$ | 39 | 15 | R$^{1}/_{2}$" | 15 | |
| DN20 | Rd44×1/6$^{s}$ | 43 | 19 | R$^{3}/_{4}$" | 15 | |
| DN25 | Rd52×1/6$^{s}$ | 48 | 25 | R1" | 20 | |
| DN32 | Rd58×1/6$^{s}$ | 48 | 31 | R1$^{1}/_{4}$" | 20 | |
| DN40 | Rd65×1/6$^{s}$ | 50 | 37 | R1$^{1}/_{2}$" | 20 | |
| DN50 | Rd78×1/6$^{s}$ | 52 | 49 | R2" | 22 | |
| DN65 | Rd95×1/6$^{s}$ | 54 | 66 | R2$^{1}/_{2}$" | 22 | |
| DN80 | Rd110×1/4$^{s}$ | 65 | 81 | R3" | 25 | |
| DN100 | Rd130×1/4$^{s}$ | 70 | 100 | R4" | 30 | |

## Liner type ball valve adapter




| Size | D | A | B | C | E | kg |
|---|---|---|---|---|---|---|
| DN10 | 22 | 33 | 9 | R$^{3}/_{8}$" | 12 | |
| DN15 | 28.5 | 36 | 15 | R$^{1}/_{2}$" | 15 | |
| DN20 | 36.5 | 40 | 19 | R$^{3}/_{4}$" | 15 | |
| DN25 | 44 | 50 | 25 | R1" | 20 | |
| DN32 | 50 | 50 | 31 | R1$^{1}/_{4}$" | 20 | |
| DN40 | 56 | 50 | 37 | R1$^{1}/_{2}$" | 20 | |
| DN50 | 68.5 | 51 | 49 | R2" | 22 | |
| DN65 | 86 | 55 | 66 | R2$^{1}/_{2}$" | 22 | |
| DN80 | 100 | 61 | 81 | R3" | 25 | |
| DN100 | 121 | 70 | 100 | R4" | 30 | |

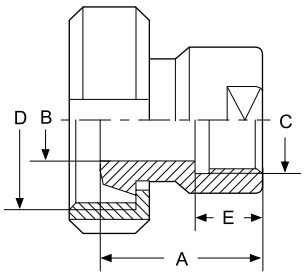
## Female type ball valve adapter




| Size | D | A | B | C | E | kg |
|---|---|---|---|---|---|---|
| DN10 | Rd28×1/8$^{s}$ | 22 | 9 | R$^{3}/_{8}$" | 12 | |
| DN15 | Rd34×1/8$^{s}$ | 25 | 15 | R$^{1}/_{2}$" | 15 | |
| DN20 | Rd44×1/6$^{s}$ | 28 | 19 | R$^{3}/_{4}$" | 15 | |
| DN25 | Rd52×1/6$^{s}$ | 35 | 25 | R1" | 20 | |
| DN32 | Rd58×1/6$^{s}$ | 35 | 31 | R1$^{1}/_{4}$" | 20 | |
| DN40 | Rd65×1/6$^{s}$ | 35 | 37 | R1$^{1}/_{2}$" | 20 | |
| DN50 | Rd78×1/6$^{s}$ | 38 | 49 | R2" | 22 | |
| DN65 | Rd95×1/6$^{s}$ | 38 | 66 | R2$^{1}/_{2}$" | 22 | |
| DN80 | Rd110×1/4$^{s}$ | 40 | 81 | R3" | 25 | |
| DN100 | Rd130×1/4$^{s}$ | 48 | 100 | R4" | 30 | |

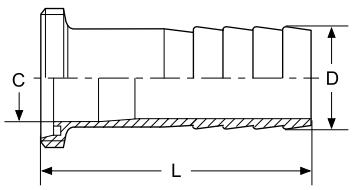
# DIN union and accessories

## Liner female type ball valve adapter



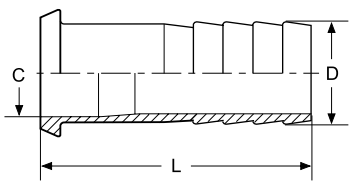

| Size | D | A | B | C | E | kg |
|---|---|---|---|---|---|---|
| DN10 | Rd28×1/8" | 37 | 9 | R3/8" | 12 | |
| DN15 | Rd34×1/8" | 42 | 15 | R1/2" | 15 | |
| DN20 | Rd44×1/6" | 43 | 19 | R3/4" | 15 | |
| DN25 | Rd52×1/6" | 52 | 25 | R1" | 20 | |
| DN32 | Rd58×1/6" | 55 | 31 | R1 1/4" | 20 | |
| DN40 | Rd65×1/6" | 56 | 37 | R1 1/2" | 20 | |
| DN50 | Rd78×1/6" | 60 | 49 | R2" | 22 | |
| DN65 | Rd95×1/6" | 64 | 66 | R2 1/2" | 22 | |
| DN80 | Rd110×1/4" | 74 | 81 | R3" | 25 | |
| DN100 | Rd130×1/4 | 89 | 100 | R4" | 30 | |

## Male type hose barb adapterAdapter



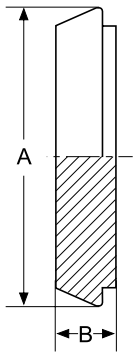

| Size | D | T | A | L | C | kg |
|---|---|---|---|---|---|---|
| DN25 | 28 | | | 60 | 25 | |
| DN32 | 34 | | | 60 | 31 | |
| DN40 | 40 | | | 70 | 37 | |
| DN50 | 52 | | | 75 | 49 | |
| DN65 | 70 | | | 85 | 66 | |
| DN80 | 85 | | | 100 | 81 | |
| DN100 | 104 | | | 120 | 100 | |
| DN125 | 129 | | | 140 | 125 | |

## Liner type hose barb adapter



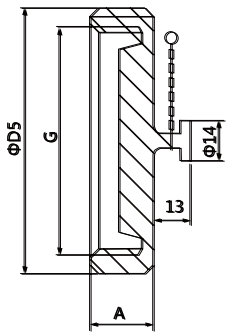

| Size | D | T | A | L | C | kg |
|---|---|---|---|---|---|---|
| DN25 | 28 | | | 60 | 25 | |
| DN32 | 34 | | | 60 | 31 | |
| DN40 | 40 | | | 70 | 37 | |
| DN50 | 52 | | | 75 | 49 | |
| DN65 | 70 | | | 85 | 66 | |
| DN80 | 85 | | | 100 | 81 | |
| DN100 | 104 | | | 120 | 100 | |
| DN125 | 129 | | | 140 | 125 | |

## Taper type blind liner



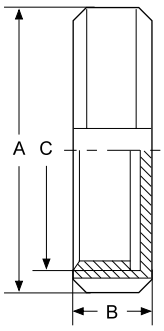

| Size | D | T | A | B | C | kg |
|---|---|---|---|---|---|---|
| DN10 | | | 22 | 9 | | |
| DN15 | | | 28 | 9 | | |
| DN20 | | | 36.5 | 11 | | |
| DN25 | | | 44 | 13 | | |
| DN32 | | | 50 | 13 | | |
| DN40 | | | 56 | 13 | | |
| DN50 | | | 68.5 | 14 | | |
| DN65 | | | 86 | 16 | | |
| DN80 | | | 100 | 16 | | |
| DN100 | | | 121 | 20 | | |
| DN125 | | | 150 | 22 | | |
| DN150 | | | 176 | 24 | | |

## Blind nut with chain




| Size | D5 | A | G | kg |
|---|---|---|---|---|
| DN15 | 44 | 18 | RD34×1/8" | |
| DN20 | 54 | 21 | RD44×1/6" | |
| DN25 | 63 | 21 | RD52×1/6" | |
| DN32 | 70 | 21 | RD58×1/6" | |
| DN40 | 78 | 21 | RD65×1/6" | |
| DN50 | 92 | 22 | RD78×1/6" | |
| DN65 | 112 | 25 | RRD95×1/6" | |
| DN80 | 127 | 29 | RD110×1/4" | |
| DN100 | 148 | 31 | RD130×1/4" | |
| DN125 | 178 | 34 | RD160×1/4" | |
| DN150 | 210 | 40 | RD190×1/4" | |

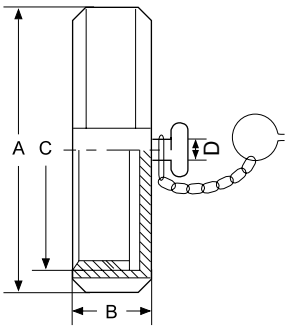
## Blind nut




| Size | D | T | A | B | C | kg |
|---|---|---|---|---|---|---|
| DN10 | | | 38 | 18 | Rd28×1/8" | |
| DN15 | | | 44 | 18 | Rd34×1/8" | |
| DN20 | | | 54 | 21 | Rd44×1/6" | |
| DN25 | | | 63 | 21 | Rd52×1/6" | |
| DN32 | | | 70 | 21 | Rd58×1/6" | |
| DN40 | | | 78 | 21 | Rd65×1/6" | |
| DN50 | | | 92 | 22 | Rd78×1/6" | |
| DN65 | | | 112 | 25 | Rd95×1/6" | |
| DN80 | | | 127 | 29 | Rd110×1/4" | |
| DN100 | | | 148 | 31 | Rd130×1/4" | |
| DN125 | | | 178 | 34 | Rd160×1/4" | |
| DN150 | | | 210 | 40 | Rd190×1/4" | |

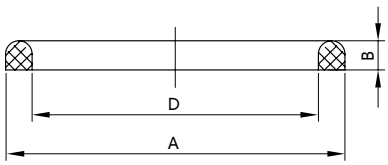
# DIN union and accessories

## Blind nut with chain




| Size | D | T | A | B | C | kg |
|---|---|---|---|---|---|---|
| DN10 | 8 | | 38 | 18 | Rd28×1/8" | |
| DN15 | 8 | | 44 | 18 | Rd34×1/8" | |
| DN20 | 8 | | 54 | 21 | Rd44×1/6" | |
| DN25 | 8 | | 63 | 21 | Rd52×1/6" | |
| DN32 | 8 | | 70 | 21 | Rd58×1/6" | |
| DN40 | 8 | | 78 | 21 | Rd65×1/6" | |
| DN50 | 8 | | 92 | 22 | Rd78×1/6" | |
| DN65 | 8 | | 112 | 25 | Rd95×1/6" | |
| DN80 | 8 | | 127 | 29 | Rd110×1/4" | |
| DN100 | 8 | | 148 | 31 | Rd130×1/4" | |
| DN125 | 8 | | 178 | 34 | Rd160×1/4" | |
| DN150 | 8 | | 210 | 40 | Rd190×1/4" | |

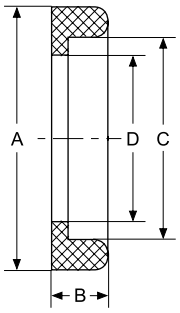
## Gasket




| Size | A | B | D | kg |
|---|---|---|---|---|
| DN10 | 20 | 4.5 | 12 | |
| DN15 | 26 | 4.5 | 18 | |
| DN20 | 33 | 4.5 | 23 | |
| DN25 | 40 | 5.0 | 30 | |
| DN32 | 46 | 5.0 | 36 | |
| DN40 | 52 | 5.0 | 42 | |
| DN50 | 64 | 5.0 | 54 | |
| DN65 | 81 | 5.0 | 71 | |
| DN75 | 88 | 5.0 | 78 | |
| DN80 | 95 | 5.0 | 85 | |
| DN100 | 114 | 6.0 | 104 | |
| DN125 | 142 | 7.0 | 130 | |
| DN150 | 167 | 7.0 | 155 | |

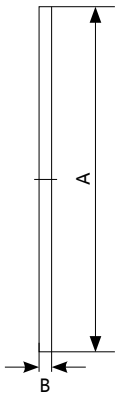
# DIN union and accessories

## Gasket




| Size | D | A | B | C | B | kg |
|---|---|---|---|---|---|---|
| DN10 | 10 | 20 | 4.5 | 12 | | |
| DN15 | 16 | 26 | 4.5 | 18 | | |
| DN20 | 20 | 33 | 4.5 | 23 | 8 | |
| DN25 | 26 | 40 | 5 | 30 | 8 | |
| DN32 | 32 | 46 | 5 | 36 | 8 | |
| DN40 | 38 | 52 | 5 | 42 | 8 | |
| DN50 | 50 | 64 | 5 | 54 | 8 | |
| DN65 | 66.5 | 81 | 5 | 71 | 8 | |
| DN80 | 81.5 | 95 | 5 | 85 | 8 | |
| DN100 | 100.5 | 114 | 6 | 104 | 8 | |
| DN125 | 125 | 142 | 7 | 130 | | |
| DN150 | 150 | 167 | 7 | 155 | | |

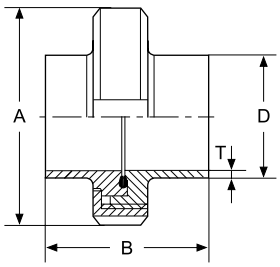
## Nut gasket




| Size | A | B | | | kg |
|---|---|---|---|---|---|
| DN10 | 28 | 3 | | | |
| DN15 | 34 | 3 | | | |
| DN20 | 44 | 3 | | | |
| DN25 | 52 | 3 | | | |
| DN32 | 58 | 3 | | | |
| DN40 | 65 | 3 | | | |
| DN50 | 78 | 3 | | | |
| DN65 | 95 | 3 | | | |
| DN80 | 110 | 3 | | | |
| DN100 | 130 | 3 | | | |
| DN125 | 160 | 3 | | | |
| DN150 | 190 | 3 | | | |

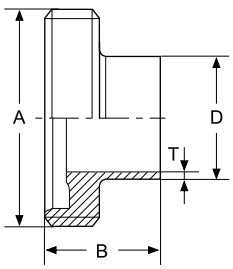
# DIN11864-1 aseptic union parts

## Aseptic union assembly(long type)



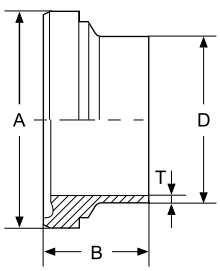

| Size | DxT | A | B | C | kg |
|---|---|---|---|---|---|
| DN10 | 12x1.5 | 38 | 80 | | |
| DN15 | 18x1.5 | 44 | 80 | | |
| DN20 | 22x1.5 | 54 | 81 | | |
| DN25 | 28x1.5 | 63 | 83 | | |
| DN32 | 34x1.5 | 70 | 95 | | |
| DN40 | 40x1.5 | 78 | 95 | | |
| DN50 | 52x1.5 | 92 | 96 | | |
| DN65 | 70x2.0 | 112 | 121 | | |
| DN80 | 85x2.0 | 127 | 125 | | |
| DN100 | 104x2.0 | 148 | 130 | | |

## Male(long type)




| Size | DxT | A | B | C | kg |
|---|---|---|---|---|---|
| DN10 | 12x1.5 | Rd28×1/8" | 41 | | |
| DN15 | 18x1.5 | Rd34×1/8" | 41 | | |
| DN20 | 22x1.5 | Rd44×1/6" | 43 | | |
| DN25 | 28x1.5 | Rd52×1/6" | 43 | | |
| DN32 | 34x1.5 | Rd58×1/6" | 48 | | |
| DN40 | 40x1.5 | Rd65×1/6" | 48 | | |
| DN50 | 52x1.5 | Rd78×1/6" | 48 | | |
| DN65 | 70x2.0 | Rd95×1/6" | 60 | | |
| DN80 | 85x2.0 | Rd110×1/4" | 64 | | |
| DN100 | 104x2.0 | Rd130×1/4" | 64 | | |

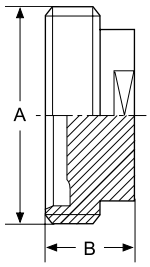
## Liner(long type)




| Size | DxT | A | B | C | kg |
|---|---|---|---|---|---|
| DN10 | 12x1.5 | 21.9 | 39 | | |
| DN15 | 18x1.5 | 27.9 | 39 | | |
| DN20 | 22x1.5 | 35.9 | 38 | | |
| DN25 | 28x1.5 | 42.9 | 40 | | |
| DN32 | 34x1.5 | 48.9 | 47 | | |
| DN40 | 40x1.5 | 54.9 | 47 | | |
| DN50 | 52x1.5 | 66.9 | 48 | | |
| DN65 | 70x2.0 | 84.9 | 61 | | |
| DN80 | 85x2.0 | 98.9 | 61 | | |
| DN100 | 104x2.0 | 118.9 | 66 | | |

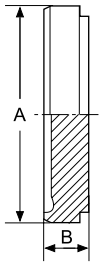
# DIN11864-1 aseptic union parts

## Blind male



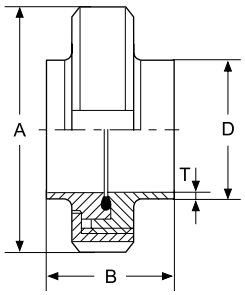

| Size | D | T | A | B | C | kg |
|---|---|---|---|---|---|---|
| DN10 | | | Rd28×1/8" | 24 | | |
| DN15 | | | Rd34×1/8" | 24 | | |
| DN20 | | | Rd44×1/6" | 24 | | |
| DN25 | | | Rd52×1/6" | 24 | | |
| DN32 | | | Rd58×1/6" | 24 | | |
| DN40 | | | Rd65×1/6" | 24 | | |
| DN50 | | | Rd78×1/6" | 24 | | |
| DN65 | | | Rd95×1/6" | 28 | | |
| DN80 | | | Rd110×1/4" | 28 | | |
| DN100 | | | Rd130×1/4" | 30 | | |

## Flat type blind liner




| Size | D | T | A | B | C | kg |
|---|---|---|---|---|---|---|
| DN10 | | | 21.9 | 9 | | |
| DN15 | | | 27.9 | 9 | | |
| DN20 | | | 35.9 | 10 | | |
| DN25 | | | 42.9 | 12 | | |
| DN32 | | | 48.9 | 13 | | |
| DN40 | | | 54.9 | 13 | | |
| DN50 | | | 66.9 | 14 | | |
| DN65 | | | 84.9 | 16 | | |
| DN80 | | | 98.9 | 16 | | |
| DN100 | | | 118.9 | 20 | | |

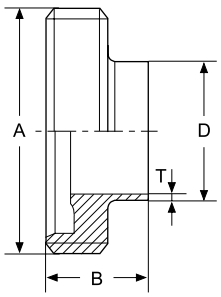
## Aseptic union(short type)




| Size | DxT | A | B | C | kg |
|---|---|---|---|---|---|
| DN10 | 12x1.5 | 38 | 32 | | |
| DN15 | 18x1.5 | 44 | 32 | | |
| DN20 | 22x1.5 | 54 | 34 | | |
| DN25 | 28x1.5 | 63 | 42 | | |
| DN32 | 34x1.5 | 70 | 48 | | |
| DN40 | 40x1.5 | 78 | 50 | | |
| DN50 | 52x1.5 | 92 | 54 | | |
| DN65 | 70x2.0 | 112 | 62 | | |
| DN80 | 85x2.0 | 127 | 72 | | |
| DN100 | 104x2.0 | 148 | 86 | | |

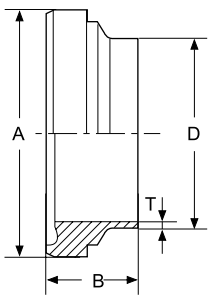
# DIN11864-1 aseptic union parts

## Male



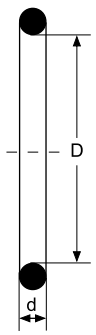

| Size | DxT | A | B | C | kg |
|---|---|---|---|---|---|
| DN10 | 12x1.5 | Rd28×1/8" | 19 | | |
| DN15 | 18x1.5 | Rd34×1/8" | 19 | | |
| DN20 | 22x1.5 | Rd44×1/6" | 21 | | |
| DN25 | 28x1.5 | Rd52×1/6" | 26 | | |
| DN32 | 34x1.5 | Rd58×1/6" | 30 | | |
| DN40 | 40x1.5 | Rd65×1/6" | 31 | | |
| DN50 | 52x1.5 | Rd78×1/6" | 31 | | |
| DN65 | 70x2.0 | Rd95×1/6" | 36 | | |
| DN80 | 85x2.0 | Rd110×1/4" | 42 | | |
| DN100 | 104x2.0 | Rd130×1/4" | 50 | | |

## Liner




| Size | DxT | A | B | C | kg |
|---|---|---|---|---|---|
| DN10 | 12x1.5 | 21.9 | 17 | | |
| DN15 | 18x1.5 | 27.9 | 17 | | |
| DN20 | 22x1.5 | 35.9 | 18 | | |
| DN25 | 28x1.5 | 42.9 | 22 | | |
| DN32 | 34x1.5 | 48.9 | 25 | | |
| DN40 | 40x1.5 | 54.9 | 26 | | |
| DN50 | 52x1.5 | 66.9 | 30 | | |
| DN65 | 70x2.0 | 84.9 | 34 | | |
| DN80 | 85x2.0 | 98.9 | 38 | | |
| DN100 | 104x2.0 | 118.9 | 46 | | |

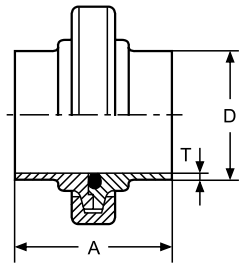
## O-Ring




| Size | D | T | A | B | d | kg |
|---|---|---|---|---|---|---|
| DN10 | 12 | | | | 3.5 | |
| DN15 | 18 | | | | 3.5 | |
| DN20 | 22 | | | | 3.5 | |
| DN25 | 28 | | | | 3.5 | |
| DN32 | 34 | | | | 5 | |
| DN40 | 40 | | | | 5 | |
| DN50 | 52 | | | | 5 | |
| DN65 | 68 | | | | 5 | |
| DN80 | 83 | | | | 5 | |
| DN100 | 102 | | | | 5 | |

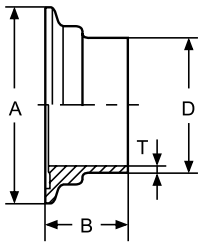
# DIN aseptic ferrules and accessories

## Aseptic clamped ferrule assembly



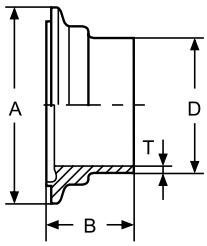

| Size | DxT | A | B | C | kg |
|---|---|---|---|---|---|
| DN10 | 12x1.5 | 44 | | | |
| DN10 | 13x1.5 | 44 | | | |
| DN15 | 18x1.5 | 44 | | | |
| DN15 | 19x1.5 | 44 | | | |
| DN20 | 22x1.5 | 44 | | | |
| DN20 | 23x1.5 | 44 | | | |
| DN25 | 28x1.5 | 44 | | | |
| DN25 | 29x1.5 | 44 | | | |
| DN32 | 34x1.5 | 48 | | | |
| DN32 | 35x1.5 | 48 | | | |
| DN40 | 40x1.5 | 48 | | | |
| DN40 | 41x1.5 | 48 | | | |
| DN50 | 52x1.5 | 49 | | | |
| DN50 | 53x1.5 | 49 | | | |
| DN65 | 70x2.0 | 53 | | | |
| DN80 | 85x2.0 | 57 | | | |
| DN100 | 104x2.0 | 60 | | | |

## Concave ferrule




| Size | DxT | A | B | C | kg |
|---|---|---|---|---|---|
| DN10 | 12x1.5 | 34 | 22 | | |
| DN10 | 13x1.5 | 34 | 22 | | |
| DN15 | 18x1.5 | 34 | 22 | | |
| DN15 | 19x1.5 | 34 | 22 | | |
| DN20 | 22x1.5 | 50.5 | 22 | | |
| DN20 | 23x1.5 | 50.5 | 22 | | |
| DN25 | 28x1.5 | 50.5 | 22 | | |
| DN25 | 29x1.5 | 50.5 | 22 | | |
| DN32 | 34x1.5 | 50.5 | 24 | | |
| DN32 | 35x1.5 | 50.5 | 24 | | |
| DN40 | 40x1.5 | 64 | 24 | | |
| DN40 | 41x1.5 | 64 | 24 | | |
| DN50 | 52x1.5 | 77.5 | 24.5 | | |
| DN50 | 53x1.5 | 77.5 | 24.5 | | |
| DN65 | 70x2.0 | 91 | 26.5 | | |
| DN80 | 85x2.0 | 106 | 28.5 | | |
| DN100 | 104x2.0 | 130 | 30 | | |

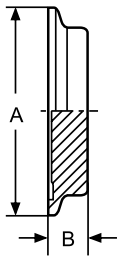
## Convex ferrule




| Size | DxT | A | B | C | kg |
|---|---|---|---|---|---|
| DN10 | 12x1.5 | 34 | 23.5 | | |
| DN10 | 13x1.5 | 34 | 23.5 | | |
| DN15 | 18x1.5 | 34 | 23.5 | | |
| DN15 | 19x1.5 | 34 | 23.5 | | |
| DN20 | 22x1.5 | 50.5 | 23.5 | | |
| DN20 | 23x1.5 | 50.5 | 23.5 | | |
| DN25 | 28x1.5 | 50.5 | 23.5 | | |
| DN25 | 29x1.5 | 50.5 | 23.5 | | |
| DN32 | 34x1.5 | 50.5 | 25.5 | | |
| DN32 | 35x1.5 | 50.5 | 25.5 | | |
| DN40 | 40x1.5 | 64 | 25.5 | | |
| DN40 | 41x1.5 | 64 | 25.5 | | |
| DN50 | 52x1.5 | 77.5 | 26 | | |
| DN50 | 53x1.5 | 77.5 | 26 | | |
| DN65 | 70x2.0 | 91 | 28 | | |
| DN80 | 85x2.0 | 106 | 30 | | |
| DN100 | 104x2.0 | 130 | 31.5 | | |

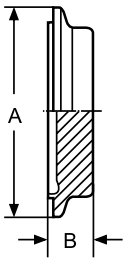
# DIN aseptic ferrules and accessories

## Concave blind cap



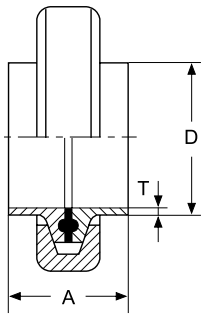

| Size | D | T | A | B | C | kg |
|---|---|---|---|---|---|---|
| DN10 | | | 34 | 11.5 | | |
| DN15 | | | 34 | 11.5 | | |
| DN20 | | | 50.5 | 11.5 | | |
| DN25 | | | 50.5 | 11.5 | | |
| DN32 | | | 50.5 | 11.5 | | |
| DN40 | | | 64 | 11.5 | | |
| DN50 | | | 77.5 | 13.5 | | |
| DN65 | | | 91 | 13.5 | | |
| DN80 | | | 106 | 13.5 | | |
| DN100 | | | 130 | 13.5 | | |

## Convex blind cap



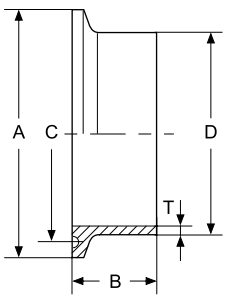

| Size | D | T | A | B | C | kg |
|---|---|---|---|---|---|---|
| DN10 | | | 34 | 13 | | |
| DN15 | | | 34 | 13 | | |
| DN20 | | | 50.5 | 13 | | |
| DN25 | | | 50.5 | 13 | | |
| DN32 | | | 50.5 | 13 | | |
| DN40 | | | 64 | 13 | | |
| DN50 | | | 77.5 | 15 | | |
| DN65 | | | 91 | 15 | | |
| DN80 | | | 106 | 15 | | |
| DN100 | | | 130 | 15 | | |

## Clamped ferrule assembly




| Size | DxT | A | B | C | kg |
|---|---|---|---|---|---|
| DN10 | 12x1.5 | 38 | | | |
| DN15 | 18x1.5 | 38 | | | |
| DN20 | 22x1.5 | 38 | | | |
| DN25 | 28x1.5 | 45 | | | |
| DN32 | 34x1.5 | 45 | | | |
| DN40 | 40x1.5 | 45 | | | |
| DN50 | 52x1.5 | 45 | | | |
| DN65 | 70x2.0 | 58 | | | |
| DN80 | 85x2.0 | 58 | | | |
| DN100 | 104x2.0 | 58 | | | |
| DN125 | 129x2.0 | 58 | | | |
| DN150 | 154x2.0 | 58 | | | |

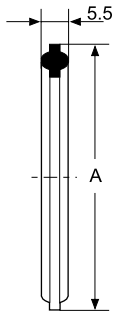
## Clamped ferrule




| Size | DxT | A | B | C | kg |
|---|---|---|---|---|---|
| DN10 | 12x1.5 | 34 | 18 | 27.5 | |
| DN15 | 18x1.5 | 34 | 18 | 27.5 | |
| DN20 | 22x1.5 | 34 | 18 | 27.5 | |
| DN25 | 28x1.5 | 50.5 | 21.5 | 43.5 | |
| DN32 | 34x1.5 | 50.5 | 21.5 | 43.5 | |
| DN40 | 40x1.5 | 50.5 | 21.5 | 43.5 | |
| DN50 | 52x1.5 | 64 | 21.5 | 56.5 | |
| DN65 | 70x2.0 | 91 | 28 | 83.5 | |
| DN80 | 85x2.0 | 106 | 28 | 97 | |
| DN100 | 104x2.0 | 119 | 28 | 110 | |
| DN125 | 129x2.0 | 155 | 28 | 146 | |
| DN150 | 154x2.0 | 183 | 28 | 174 | |

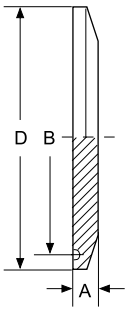
# DIN clamp and accessories

## Gasket for ferrule



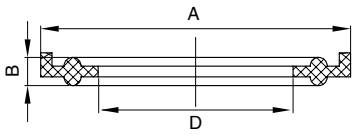

| Size | D | T | A | B | C | kg |
|---|---|---|---|---|---|---|
| DN15 | | | 34 | | | |
| DN20 | | | 34 | | | |
| DN25 | | | 50.5 | | | |
| DN32 | | | 50.5 | | | |
| DN40 | | | 50.5 | | | |
| DN50 | | | 64 | | | |
| DN65 | | | 91 | | | |
| DN80 | | | 108 | | | |
| DN100 | | | 119 | | | |
| DN125 | | | 155 | | | |
| DN150 | | | 183 | | | |

## Clamped blind cap



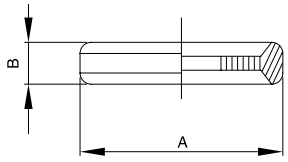

| Size | D | T | A | B | C | kg |
|---|---|---|---|---|---|---|
| DN10 | 34 | | 6.3 | 27.5 | | |
| DN15 | 34 | | 6.3 | 27.5 | | |
| DN20 | 34 | | 6.3 | 27.5 | | |
| DN25 | 50.5 | | 6.3 | 43.5 | | |
| DN32 | 50.5 | | 6.3 | 43.5 | | |
| DN40 | 50.5 | | 6.3 | 43.5 | | |
| DN50 | 64 | | 6.3 | 56.5 | | |
| DN65 | 91 | | 6.3 | 83.5 | | |
| DN80 | 106 | | 6.3 | 97 | | |
| DN100 | 119 | | 7.9 | 110 | | |
| DN125 | 155 | | 11.1 | 146 | | |
| DN150 | 183 | | 11.1 | 174 | | |

## Gasket for ferrule




| Size | A | B | D | kg |
|---|---|---|---|---|
| DN10 | 36.2 | 5.5 | 10.2 | |
| DN20 | 36.2 | 5.5 | 16.2 | |
| DN15 | 36.2 | 5.5 | 20.2 | |
| DN25 | 52.7 | 5.5 | 26.2 | |
| DN32 | 52.7 | 5.5 | 32.2 | |
| DN40 | 52.7 | 5.5 | 38.2 | |
| DN50 | 66.2 | 5.5 | 50.2 | |
| DN65 | 93.2 | 5.5 | 66.2 | |
| DN80 | 108.2 | 5.5 | 81.2 | |
| DN100 | 121.2 | 5.5 | 100.2 | |
| DN125 | 157.2 | 5.5 | 125.2 | |
| DN150 | 185.2 | 5.5 | 150.2 | |

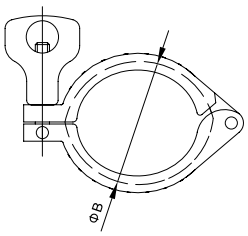
## Gasket for ferrule




| Size | A | B | | kg |
|---|---|---|---|---|
| DN10 | 5 | 21.8 | | |
| DN15 | 5 | 21.8 | | |

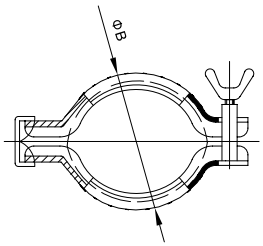
# DIN clamp and accessories

## Heavy duty Clamp



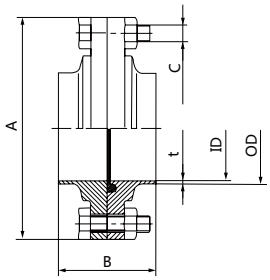

| Size | B | | | kg |
|---|---|---|---|---|
| DN10 | 37 | | | |
| DN15 | 37 | | | |
| DN20 | 37 | | | |
| DN25 | 53 | | | |
| DN32 | 53 | | | |
| DN40 | 53 | | | |
| DN50 | 67 | | | |
| DN65 | 94 | | | |
| DN80 | 109 | | | |
| DN100 | 122 | | | |
| DN125 | 149 | | | |
| DN150 | 187 | | | |

## Pressing Clamp




| Size | B | | | kg |
|---|---|---|---|---|
| DN20 | 40 | | | |
| DN25 | 58.5 | | | |
| DN32 | 58.5 | | | |
| DN40 | 58.5 | | | |
| DN50 | 72.0 | | | |
| DN65 | 99.0 | | | |
| DN100 | 127.0 | | | |

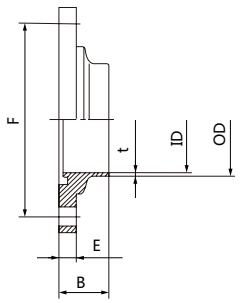
## Flange assembly




| Size | OD/IDxt | A | B | C | kg |
|---|---|---|---|---|---|
| DN25 | 29/26X1.5 | 79 | 50 | 4XM8 | |
| DN32 | 35/32X1.5 | 79 | 50 | 4XM8 | |
| DN40 | 41/38X1.5 | 87 | 50 | 4XM8 | |
| DN50 | 53/50X1.5 | 106 | 50 | 4XM8 | |
| DN65 | 70/66X2.0 | 125 | 50 | 4XM8 | |
| DN80 | 85/81X2.0 | 140 | 50 | 4XM8 | |
| DN100 | 104/100X2.0 | 160 | 50 | 4XM8 | |
| DN125 | 129/125X2.0 | 190 | 60 | 4XM10 | |
| DN150 | 154/150X2.0 | 215 | 60 | 4XM10 | |
| | | | | | |
| | | | | | |
| | | | | | |

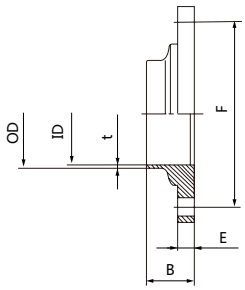
# DIN flange and accessories

## Concave buttweld flange



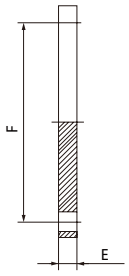

| Size | OD/IDxt | B | E | F | kg |
|---|---|---|---|---|---|
| DN25 | 29/26X1.5 | 25 | 10 | 64 | |
| DN32 | 35/32X1.5 | 25 | 10 | 64 | |
| DN40 | 41/38X1.5 | 25 | 10 | 72 | |
| DN50 | 53/50X1.5 | 25 | 10 | 91 | |
| DN65 | 70/66X2.0 | 25 | 10 | 110 | |
| DN80 | 85/81X2.0 | 25 | 10 | 125 | |
| DN100 | 104/100X2.0 | 25 | 10 | 143 | |
| DN125 | 129/125X2.0 | 30 | 15 | 171 | |
| DN150 | 154/150X2.0 | 30 | 15 | 196 | |
| | | | | | |
| | | | | | |
| | | | | | |

## Flat buttweld flange




| Size | OD/IDxt | B | E | F | kg |
|---|---|---|---|---|---|
| DN25 | 29/26X1.5 | 25 | 10 | 64 | |
| DN32 | 35/32X1.5 | 25 | 10 | 64 | |
| DN40 | 41/38X1.5 | 25 | 10 | 72 | |
| DN50 | 53/50X1.5 | 25 | 10 | 91 | |
| DN65 | 70/66X2.0 | 25 | 10 | 110 | |
| DN80 | 85/81X2.0 | 25 | 10 | 125 | |
| DN100 | 104/100X2.0 | 25 | 10 | 143 | |
| DN125 | 129/125X2.0 | 30 | 15 | 171 | |
| DN150 | 154/150X2.0 | 30 | 15 | 196 | |

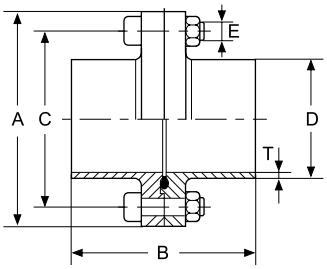
## Blind flange




| Size | OD/IDxt | | E | F | kg |
|---|---|---|---|---|---|
| DN25 | | | 10 | 64 | |
| DN32 | | | 10 | 64 | |
| DN40 | | | 10 | 72 | |
| DN50 | | | 10 | 91 | |
| DN65 | | | 10 | 110 | |
| DN80 | | | 10 | 125 | |
| DN100 | | | 10 | 143 | |
| DN125 | | | 15 | 171 | |
| DN150 | | | 15 | 196 | |

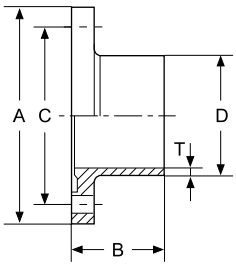
# DIN flange and accessories

## Aseptic Union flange(Long)



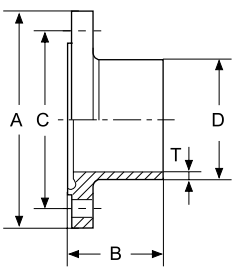

| Size | DxT | A | B | C | E | kg |
|---|---|---|---|---|---|---|
| DN10 | 12x1.5 | 54 | 80 | 37 | 4-M8 | |
| DN15 | 18x1.5 | 59 | 80 | 42 | 4-M8 | |
| DN20 | 22x1.5 | 64 | 80 | 47 | 4-M8 | |
| DN25 | 28x1.5 | 70 | 80 | 53 | 4-M8 | |
| DN32 | 34x1.5 | 76 | 90 | 59 | 4-M8 | |
| DN40 | 40x1.5 | 82 | 90 | 65 | 4-M8 | |
| DN50 | 52x1.5 | 94 | 90 | 77 | 4-M8 | |
| DN65 | 70x2.0 | 113 | 108 | 95 | 8-M8 | |
| DN80 | 85x2.0 | 133 | 116 | 112 | 8-M10 | |
| DN100 | 104x2.0 | 159 | 116 | 137 | 8-M10 | |

## Concave buttweld flange




| Size | DxT | A | B | C | E | kg |
|---|---|---|---|---|---|---|
| DN10 | 12x1.5 | 54 | 40 | 37 | | |
| DN15 | 18x1.5 | 59 | 40 | 42 | | |
| DN20 | 22x1.5 | 64 | 40 | 47 | | |
| DN25 | 28x1.5 | 70 | 40 | 53 | | |
| DN32 | 34x1.5 | 76 | 45 | 59 | | |
| DN40 | 40x1.5 | 82 | 45 | 65 | | |
| DN50 | 52x1.5 | 94 | 45 | 77 | | |
| DN65 | 70x2.0 | 113 | 54 | 95 | | |
| DN80 | 85x2.0 | 133 | 58 | 112 | | |
| DN100 | 104x2.0 | 159 | 58 | 137 | | |

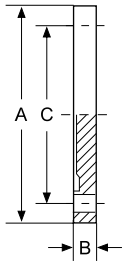
## Convex buttweld flange




| Size | DxT | A | B | C | E | kg |
|---|---|---|---|---|---|---|
| DN10 | 12x1.5 | 54 | 41.5 | 37 | | |
| DN15 | 18x1.5 | 59 | 41.5 | 42 | | |
| DN20 | 22x1.5 | 64 | 41.5 | 47 | | |
| DN25 | 28x1.5 | 70 | 41.5 | 53 | | |
| DN32 | 34x1.5 | 76 | 46.5 | 59 | | |
| DN40 | 40x1.5 | 82 | 46.5 | 65 | | |
| DN50 | 52x1.5 | 94 | 46.5 | 77 | | |
| DN65 | 70x2.0 | 113 | 55.5 | 95 | | |
| DN80 | 85x2.0 | 133 | 59.5 | 112 | | |
| DN100 | 104x2.0 | 159 | 59.5 | 137 | | |

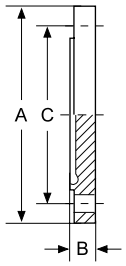
# DIN flange and accessories

## Concave flat flange



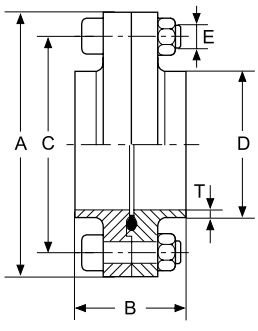

| Size | D | T | A | B | C | E | kg |
|---|---|---|---|---|---|---|---|
| DN10 | | | 54 | 10 | 37 | | |
| DN15 | | | 59 | 10 | 42 | | |
| DN20 | | | 64 | 10 | 47 | | |
| DN25 | | | 70 | 10 | 53 | | |
| DN32 | | | 76 | 10 | 59 | | |
| DN40 | | | 82 | 10 | 65 | | |
| DN50 | | | 94 | 10 | 77 | | |
| DN65 | | | 113 | 10 | 95 | | |
| DN80 | | | 133 | 12 | 112 | | |
| DN100 | | | 159 | 14 | 137 | | |

## Convex flat flange




| Size | D | T | A | B | C | E | kg |
|---|---|---|---|---|---|---|---|
| DN10 | | | 54 | 11.5 | 37 | | |
| DN15 | | | 59 | 11.5 | 42 | | |
| DN20 | | | 64 | 11.5 | 47 | | |
| DN25 | | | 70 | 11.5 | 53 | | |
| DN32 | | | 76 | 11.5 | 59 | | |
| DN40 | | | 82 | 11.5 | 65 | | |
| DN50 | | | 94 | 11.5 | 77 | | |
| DN65 | | | 113 | 11.5 | 95 | | |
| DN80 | | | 133 | 13.5 | 112 | | |
| DN100 | | | 159 | 15.5 | 137 | | |

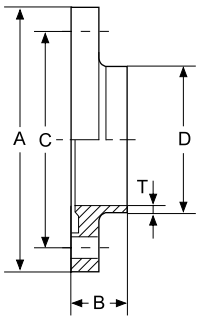
## Aseptic flange assembly(short type)




| Size | DxT | A | B | C | E | kg |
|---|---|---|---|---|---|---|
| DN10 | 12x1.5 | 54 | 48 | 37 | 4-M8 | |
| DN15 | 18x1.5 | 59 | 48 | 42 | 4-M8 | |
| DN20 | 22x1.5 | 64 | 48 | 47 | 4-M8 | |
| DN25 | 28x1.5 | 70 | 48 | 53 | 4-M8 | |
| DN32 | 34x1.5 | 76 | 48 | 59 | 4-M8 | |
| DN40 | 40x1.5 | 82 | 48 | 65 | 4-M8 | |
| DN50 | 52x1.5 | 94 | 48 | 77 | 4-M8 | |
| DN65 | 70x2.0 | 113 | 48 | 95 | 8-M8 | |
| DN80 | 85x2.0 | 133 | 52 | 112 | 8-M10 | |
| DN100 | 104x2.0 | 159 | 52 | 137 | 8-M10 | |
| DN125 | 129x2.0 | 183 | 56 | 161 | 8-M10 | |
| DN150 | 154x2.0 | 213 | 56 | 188 | 8-M12 | |

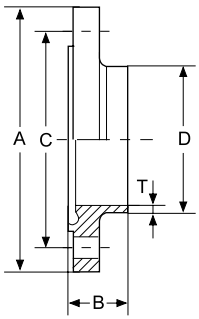
# DIN flange and accessories

## Concave buttweld flange



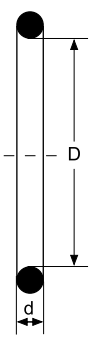

| Size | DxT | A | B | C | kg |
|---|---|---|---|---|---|
| DN10 | 12x1.5 | 54 | 24 | 37 | |
| DN15 | 18x1.5 | 59 | 24 | 42 | |
| DN20 | 22x1.5 | 64 | 24 | 47 | |
| DN25 | 28x1.5 | 70 | 24 | 53 | |
| DN32 | 34x1.5 | 76 | 24 | 59 | |
| DN40 | 40x1.5 | 82 | 24 | 65 | |
| DN50 | 52x1.5 | 94 | 24 | 77 | |
| DN65 | 70x2.0 | 113 | 24 | 95 | |
| DN80 | 85x2.0 | 133 | 26 | 112 | |
| DN100 | 104x2.0 | 159 | 26 | 137 | |
| DN125 | 129x2.0 | 183 | 28 | 161 | |
| DN150 | 154x2.0 | 213 | 28 | 188 | |

## Convex buttweld flange




| Size | DxT | A | B | C | kg |
|---|---|---|---|---|---|
| DN10 | 12x1.5 | 54 | 25.5 | 37 | |
| DN15 | 18x1.5 | 59 | 25.5 | 42 | |
| DN20 | 22x1.5 | 64 | 25.5 | 47 | |
| DN25 | 28x1.5 | 70 | 25.5 | 53 | |
| DN32 | 34x1.5 | 76 | 25.5 | 59 | |
| DN40 | 40x1.5 | 82 | 25.5 | 65 | |
| DN50 | 52x1.5 | 94 | 25.5 | 77 | |
| DN65 | 70x2.0 | 113 | 25.5 | 95 | |
| DN80 | 85x2.0 | 133 | 27.5 | 112 | |
| DN100 | 104x2.0 | 159 | 27.5 | 137 | |
| DN125 | 129x2.0 | 183 | 29.5 | 161 | |
| DN150 | 154x2.0 | 213 | 29.5 | 188 | |

## Flange gaske




| Size | D | A | B | C | d | kg |
|---|---|---|---|---|---|---|
| DN10 | 12 | | | | 3.5 | |
| DN15 | 18 | | | | 3.5 | |
| DN20 | 22 | | | | 3.5 | |
| DN25 | 28 | | | | 3.5 | |
| DN32 | 34 | | | | 5 | |
| DN40 | 40 | | | | 5 | |
| DN50 | 52 | | | | 5 | |
| DN65 | 68 | | | | 5 | |
| DN80 | 83 | | | | 5 | |
| DN100 | 102 | | | | 5 | |
| DN125 | 127 | | | | 5 | |
| DN150 | 152 | | | | 5 | |

# ISO/IDF Fittings

ISO/IDF welded pipe fittings(for domestic) ..... pages 37-42

ISO/IDF clamped pipe fittings ..... pages 43-45

ISO2037 welded pipe fittings ..... pages 46-49

ISO1127 welded pipe fittings ..... pages 50-52

ISO clamp,ferrule and accessories ..... pages 53-57

ISO aseptic clamped ferrule ..... pages 58-59

ISO flange and accessories ..... pages 60-63

ISO pipe holder ..... pages 64

ISO/IDF union and accessories ..... pages 65-68

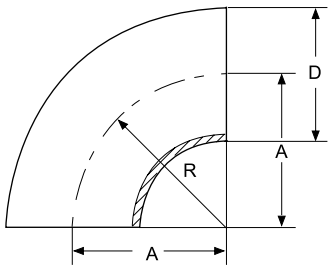
ISO/SMS union and accessories ..... pages 69-72

ISO/DIN union and accessories ..... pages 73-78

ISO/DS union and accessories ..... pages 79-80

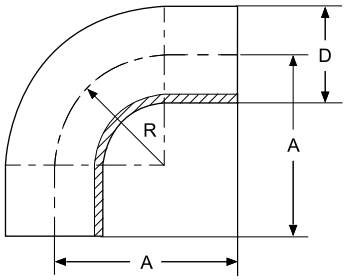
# ISO/IDF welded pipe fittings

## 90° Welded short elbow



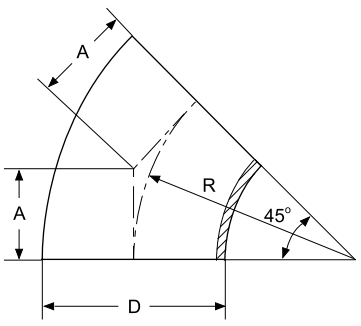

| Size | D | A | B | R | kg |
|---|---|---|---|---|---|
| 1" | 25.4 | 33.5 | | 33.5 | |
| 1.25" | 31.8 | 38 | | 38 | |
| 1.5" | 38.1 | 48.5 | | 48.5 | |
| 2" | 50.8 | 60.5 | | 60.5 | |
| 2.5" | 63.5 | 83.5 | | 83.5 | |
| 3" | 76.1 | 88.5 | | 88.5 | |
| 3.5" | 88.9 | 103.5 | | 103.5 | |
| 4" | 101.6 | 127 | | 127 | |
| 4.5" | 114.3 | 152.4 | | 152.4 | |
| 5" | 127.0 | 190.5 | | 190.5 | |
| 6" | 152.4 | 228.6 | | 228.6 | |

## 90° Welded long elbow



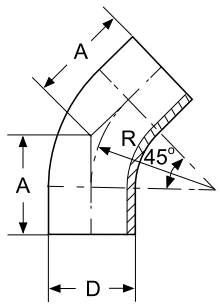

| Size | D | A | B | R | kg |
|---|---|---|---|---|---|
| 1" | 25.4 | 54 | | 33.5 | |
| 1.25" | 31.8 | 60 | | 38 | |
| 1.5" | 38.1 | 73 | | 48.5 | |
| 2" | 50.8 | 85 | | 60.5 | |
| 2.5" | 63.5 | 112 | | 83.5 | |
| 3" | 76.1 | 116 | | 88.5 | |
| 3.5" | 88.9 | 130 | | 103.5 | |
| 4" | 101.6 | 160 | | 127 | |

## 45° Welded short elbow



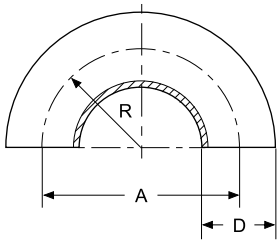

| Size | D | A | B | R | kg |
|---|---|---|---|---|---|
| 1" | 25.4 | 13.9 | | 33.5 | |
| 1.25" | 31.8 | 15.7 | | 38 | |
| 1.5" | 38.1 | 20.1 | | 48.5 | |
| 2" | 50.8 | 25.1 | | 60.5 | |
| 2.5" | 63.5 | 34.6 | | 83.5 | |
| 3" | 76.1 | 36.7 | | 88.5 | |
| 3.5" | 88.9 | 42.9 | | 103.5 | |
| 4" | 101.6 | 52.6 | | 127 | |
| 4.5" | 114.3 | 63 | | 152.4 | |
| 5" | 127.0 | 79 | | 190.5 | |
| 6" | 152.4 | 94.7 | | 228.6 | |

## 45° Welded long elbow



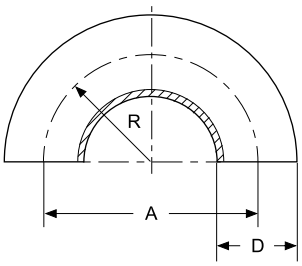

| Size | D | A | B | R | kg |
|---|---|---|---|---|---|
| 1" | 25.4 | 35 | | 33.5 | |
| 1.25" | 31.8 | 38 | | 38 | |
| 1.5" | 38.1 | 45 | | 48.5 | |
| 2" | 50.8 | 50 | | 60.5 | |
| 2.5" | 63.5 | 64 | | 83.5 | |
| 3" | 76.1 | 70 | | 88.5 | |
| 3.5" | 88.9 | 75 | | 103.5 | |
| 4" | 101.6 | 86 | | 127 | |

## 180° Welded elbow




| Size | D | A | B | R | kg |
|---|---|---|---|---|---|
| 1" | 25.4 | 67 | | 33.5 | |
| 1.5" | 38.1 | 97 | | 48.5 | |
| 2" | 50.8 | 121 | | 60.5 | |
| 2.5" | 63.5 | 167 | | 83.5 | |
| 3" | 76.1 | 177 | | 88.5 | |
| 4" | 101.6 | 254 | | 127 | |

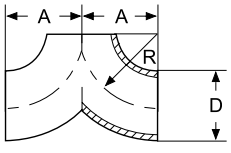
## 180° Welded elbow(R=1.5D)

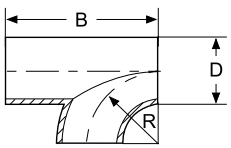



| Size | D | A | B | R | kg |
|---|---|---|---|---|---|
| 1" | 25.4 | 76.2 | | 38.1 | |
| 1.5" | 38.1 | 114.3 | | 57.2 | |
| 2" | 50.8 | 152.4 | | 76.2 | |
| 2.5" | 63.5 | 190.6 | | 95.3 | |
| 3" | 76.1 | 228.6 | | 114.3 | |
| 4" | 101.6 | 304.8 | | 152.4 | |

# ISO/IDF welded pipe fittings

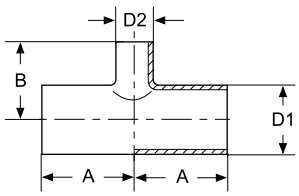
## Welded R type tee

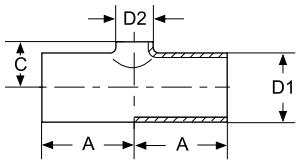



| Size | D | A | B | R | kg |
|---|---|---|---|---|---|
| 1.5" | 38.1 | 48.5 | 97 | 48.5 | |
| 2" | 50.8 | 60.5 | 121 | 60.5 | |
| 2.5" | 63.5 | 83.5 | 167 | 83.5 | |
| 3" | 76.1 | 88.5 | 177 | 88.5 | |
| 3.5" | 88.9 | 103.5 | 207 | 103.5 | |
| 4" | 101.6 | 127 | 254 | 127 | |

## Welded reducing tee/Welded reducing pulled tee

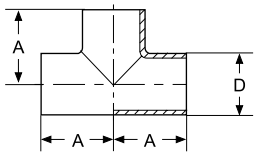


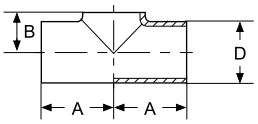




| Size | D1 | D2 | A | B | C | kg |
|---|---|---|---|---|---|---|
| 1.5"×1" | 38.1 | 25.4 | 48.5 | 44.5 | 22 | |
| 2"" | 50.8 | 38.1 | 60.5 | 64 | 28.5 | |
| 2"×1" | 50.8 | 25.4 | 60.5 | 51 | 28.5 | |
| 2.5"×2" | 63.5 | 50.8 | 83.5 | 82 | 35 | |
| 2.5"" | 63.5 | 38.1 | 83.5 | 70 | 35 | |
| 2.5"×1" | 63.5 | 25.4 | 83.5 | 57 | 35 | |
| 3"×2.5" | 76.1 | 63.5 | 88.5 | 88.5 | 41 | |
| 3"×2" | 76.1 | 50.8 | 88.5 | 88.5 | 41 | |
| 3"" | 76.1 | 38.1 | 88.5 | 76.5 | 41 | |
| 4"×3" | 101.6 | 76.1 | 127 | 101 | 54 | |
| 4"×2.5" | 101.6 | 63.5 | 127 | 101 | 54 | |
| 4"×2" | 101.6 | 50.8 | 127 | 101 | 54 | |

# ISO/IDF welded pipe fittings

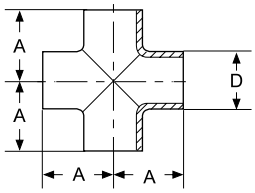
## Welded equal tee/Welded pulled tee

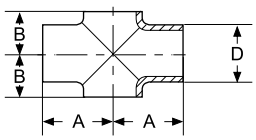



| Size | D | A | B | R | kg |
|---|---|---|---|---|---|
| 1" | 25.4 | 33.5 | 16 | | |
| 1.25" | 31.8 | 38 | 19 | | |
| 1.5" | 38.1 | 48.5 | 22 | | |
| 2" | 50.8 | 60.5 | 28.5 | | |
| 2.5" | 63.5 | 83.5 | 35 | | |
| 3" | 76.1 | 88.5 | 41 | | |
| 3.5" | 88.9 | 103.5 | 47.5 | | |
| 4" | 101.6 | 127 | 54 | | |

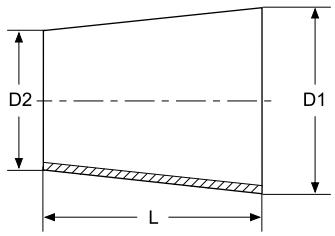
## Welded equal cross/Welded pulled cross



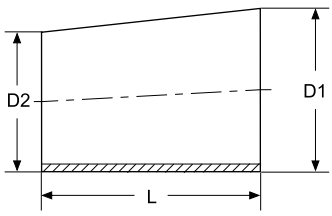

| Size | D | A | B | C | kg |
|---|---|---|---|---|---|
| 1" | 25.4 | 33.5 | 16 | | |
| 1.25" | 31.8 | 38 | 19 | | |
| 1.5" | 38.1 | 48.5 | 22 | | |
| 2" | 50.8 | 60.5 | 28.5 | | |
| 2.5" | 63.5 | 83.5 | 35 | | |
| 3" | 76.1 | 88.5 | 41 | | |
| 3.5" | 88.9 | 103.5 | 47.5 | | |
| 4" | 101.6 | 127 | 54 | | |
| 4.5" | 114.3 | 152.4 | 60 | | |

## Welded concentric reducer without straight ends




| Size | D1 x D2 | L | kg |
|---|---|---|---|
| 1"×3/4" | 25.4×19.05 | 24 | |
| 1 1/4"×1" | 31.8×25.4 | 24 | |
| 1 1/2"×1 1/4" | 38.1×31.8 | 24 | |
| 1 1/2"×1" | 38.1×25.4 | 24 | |
| 2"×1 1/2" | 50.8×38.1 | 24 | |
| 2"×1 1/4" | 50.8×31.8 | 35 | |
| 2"×1" | 50.8×25.4 | 47 | |
| 2 1/2"×2" | 63.5×50.8 | 24 | |
| 2 1/2"×1 1/2" | 63.5×38.1 | 47 | |
| 2 1/2"×1 1/4" | 63.5×31.8 | 59 | |
| 2 1/2"×1" | 63.5×25.4 | 71 | |
| 3"×2 1/2" | 76.1×63.5 | 23 | |
| 3"×2" | 76.1×50.8 | 47 | |
| 3"×1 1/2" | 76.1×38.1 | 71 | |
| 3 1/2"×3" | 88.9×76.1 | 24 | |
| 3 1/2"×2 1/2" | 88.9×63.5 | 47 | |
| 3 1/2"×2" | 88.9×50.8 | 71 | |
| 4"×3 1/2" | 101.6×88.9 | 23 | |
| 4"×3" | 101.6×76.1 | 47 | |
| 4"×2 1/2" | 101.6×63.5 | 71 | |
| 4"×2" | 101.6×50.8 | 95 | |

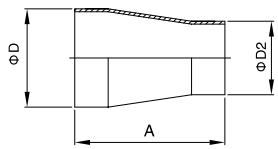
## Welded eccentric reducer without straight ends



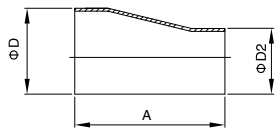

| Size | D1 x D2 | L | kg |
|---|---|---|---|
| 1"×3/4" | 25.4×19.05 | 25.5 | |
| 1 1/4"×1" | 31.8×25.4 | 25.5 | |
| 1 1/2"×1 1/4" | 38.1×31.8 | 25.5 | |
| 1 1/2"×1" | 38.1×25.4 | 21 | |
| 2"×1 1/2" | 50.8×38.1 | 21 | |
| 2"×1 1/4" | 50.8×31.8 | 31 | |
| 2"×1" | 50.8×25.4 | 42 | |
| 2 1/2"×2" | 63.5×50.8 | 51 | |
| 2 1/2"×1 1/2" | 63.5×38.1 | 42 | |
| 2 1/2"×1 1/4" | 63.5×31.8 | 52 | |
| 2 1/2"×1" | 63.5×25.4 | 63 | |
| 3"×2 1/2" | 76.1×63.5 | 51 | |
| 3"×2" | 76.1×50.8 | 42 | |
| 3"×1 1/2" | 76.1×38.1 | 63 | |
| 3 1/2"×3" | 88.9×76.1 | 51 | |
| 3 1/2"×2 1/2" | 88.9×63.5 | 42 | |
| 3 1/2"×2" | 88.9×50.8 | 63 | |
| 4"×3 1/2" | 101.6×88.9 | 51 | |
| 4"×3" | 101.6×76.1 | 42 | |
| 4"×2 1/2" | 101.6×63.5 | 63 | |
| 4"×2" | 101.6×50.8 | 84 | |

# ISO/IDF welded pipe fittings

## Welded reducer with straight ends



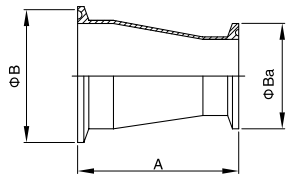

Concentric



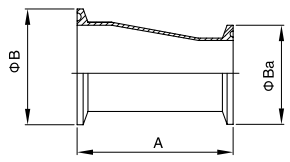

Eccentric

| Size | A | D | D2 | | kg |
|---|---|---|---|---|---|
| 1.0"x0.75" | 38.0 | 25.4 | 19.05 | | |
| 1 1/4"x1.0" | 50.0 | 31.8 | 25.4 | | |
| 1 1/2"x1 1/4" | 50.0 | 38.1 | 31.8 | | |
| 1 1/2"x1.0" | 50.0 | 38.1 | 25.4 | | |
| 2.0"x1 1/2" | 67.0 | 50.8 | 38.1 | | |
| 2.0"x1 1/4" | 67.0 | 50.8 | 31.8 | | |
| 2.0"x1.0" | 67.0 | 50.8 | 25.4 | | |
| 2 1/2"x2.0" | 67.0 | 63.5 | 50.8 | | |
| 2 1/2"x1 1/2" | 67.0 | 63.5 | 38.1 | | |
| 2 1/2"x1.0" | 67.0 | 63.5 | 25.4 | | |
| 3.0"x2 1/2" | 67.0 | 76.2 | 63.5 | | |
| 3.0"x2.0" | 67.0 | 76.2 | 50.8 | | |
| 3.0"x1 1/2" | 67.0 | 76.2 | 38.1 | | |
| 3 1/2"x3.0" | 76.0 | 88.9 | 76.2 | | |
| 3 1/2"x2 1/2" | 67.0 | 88.9 | 63.5 | | |
| 3 1/2"x2.0" | 67.0 | 88.9 | 50.8 | | |
| 4.0"x3 1/2" | 87.0 | 101.6 | 88.9 | | |
| 4.0"x3.0" | 87.0 | 101.6 | 76.2 | | |
| 4.0"x2 1/2" | 87.0 | 101.6 | 63.5 | | |
| 4.0"x2.0" | 87.0 | 101.6 | 50.8 | | |

## Clamped reducer




Concentric

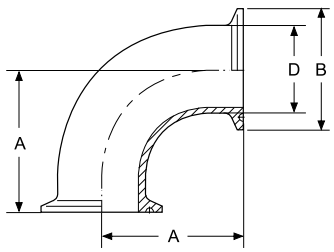



Eccentric

| Size | A | B | Ba | | kg |
|---|---|---|---|---|---|
| 1.0"x0.75" | 64.0 | 50.5 | 34.0 | | |
| 1 1/4"x1.0" | 76.0 | 50.5 | 50.5 | | |
| 1 1/2"x1 1/4" | 76.0 | 50.5 | 50.5 | | |
| 1 1/2"x1.0" | 76.0 | 50.5 | 50.5 | | |
| 2.0"x1 1/2" | 93.0 | 64.0 | 50.5 | | |
| 2.0"x1 1/4" | 93.0 | 64.0 | 50.5 | | |
| 2.0"x1.0" | 93.0 | 64.0 | 50.5 | | |
| 2 1/2"x2.0" | 93.0 | 77.5 | 64.0 | | |
| 2 1/2"x1 1/2" | 93.0 | 77.5 | 50.5 | | |
| 2 1/2"x1.0" | 93.0 | 77.5 | 50.5 | | |
| 3.0"x2 1/2" | 93.0 | 91.0 | 77.5 | | |
| 3.0"x2.0" | 93.0 | 91.0 | 64.0 | | |
| 3.0"x1 1/2" | 93.0 | 91.0 | 50.5 | | |
| 3 1/2"x3.0" | 93.0 | 106.0 | 91.0 | | |
| 3 1/2"x2 1/2" | 93.0 | 106.0 | 77.5 | | |
| 3 1/2"x2.0" | 93.0 | 106.0 | 64.0 | | |
| 4.0"x3 1/2" | 118.0 | 119.0 | 106.0 | | |
| 4.0"x3.0" | 118.0 | 119.0 | 91.0 | | |
| 4.0"x2 1/2" | 118.0 | 119.0 | 77.5 | | |
| 4.0"x2.0" | 118.0 | 119.0 | 64.0 | | |

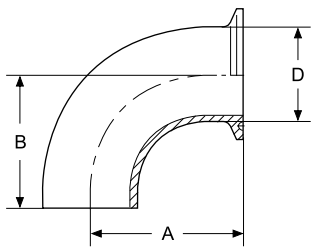
# ISO/IDF clamped pipe fittings

## 90° Clamped elbow



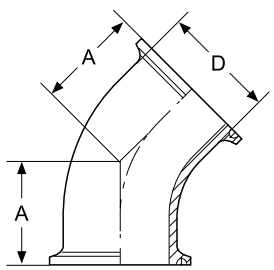

| Size | D | A | B | C | kg |
|---|---|---|---|---|---|
| 1" | 25.4 | 55 | 50.5 | | |
| 1 1/4" | 31.8 | 59.5 | 50.5 | | |
| 1 1/2" | 38.1 | 70 | 50.5 | | |
| 2" | 50.8 | 82 | 64 | | |
| 2 1/2" | 63.5 | 105 | 77.5 | | |
| 3" | 76.1 | 110 | 91 | | |
| 3 1/2" | 88.9 | 125 | 106 | | |
| 4" | 101.6 | 148.5 | 119 | | |

## 90° Welded/Clamped elbow




| Size | D | A | B | C | kg |
|---|---|---|---|---|---|
| 1" | 25.4 | 55 | 33.5 | | |
| 1 1/4" | 31.8 | 59.5 | 38 | | |
| 1 1/2" | 38.1 | 70 | 48.5 | | |
| 2" | 50.8 | 82 | 60.5 | | |
| 2 1/2" | 63.5 | 105 | 83.5 | | |
| 3" | 76.1 | 110 | 88.5 | | |
| 3 1/2" | 88.9 | 125 | 103.5 | | |
| 4" | 101.6 | 148.5 | 127 | | |

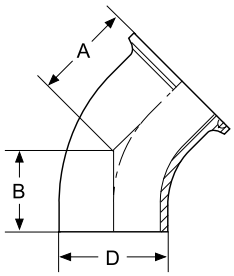
## 45° Clamped elbow




| Size | D | A | B | C | kg |
|---|---|---|---|---|---|
| 1" | 25.4 | 35.5 | | | |
| 1 1/4" | 31.8 | 37.5 | | | |
| 1 1/2" | 38.1 | 41.5 | | | |
| 2" | 50.8 | 46.5 | | | |
| 2 1/2" | 63.5 | 56.5 | | | |
| 3" | 76.1 | 58.5 | | | |
| 3 1/2" | 88.9 | 64.5 | | | |
| 4" | 101.6 | 80.5 | | | |

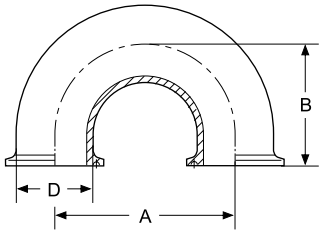
# ISO/IDF clamped pipe fittings

## 45° Welded/Clamped elbow



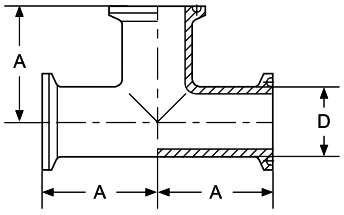

| Size | D | A | B | C | kg |
|---|---|---|---|---|---|
| 1" | 25.4 | 35.4 | 13.9 | | |
| 1 1/4" | 31.8 | 37.2 | 15.7 | | |
| 1 1/2" | 38.1 | 41.6 | 20.1 | | |
| 2" | 50.8 | 46.6 | 25.1 | | |
| 2 1/2" | 63.5 | 56.1 | 34.6 | | |
| 3" | 76.1 | 58.2 | 36.7 | | |
| 3 1/2" | 88.9 | 64.4 | 42.9 | | |
| 4" | 101.6 | 74.1 | 52.6 | | |

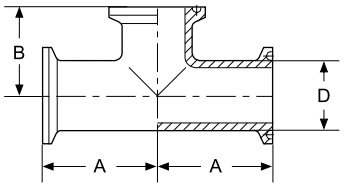
## 180° Clamped elbow




| Size | D | A | B | C | kg |
|---|---|---|---|---|---|
| 1" | 25.4 | 76.2 | 59.6 | | |
| 1 1/2" | 38.1 | 114.3 | 78.7 | | |
| 2" | 50.8 | 152.4 | 97.7 | | |
| 2 1/2" | 63.5 | 190.6 | 116.8 | | |
| 3" | 76.1 | 228.6 | 135.8 | | |
| 4" | 101.6 | 304.8 | 173.9 | | |

## Clamped equal tee/Clamped short tee

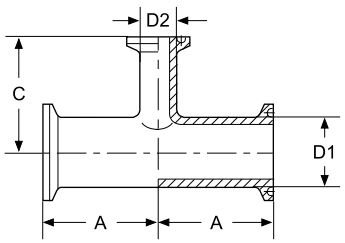


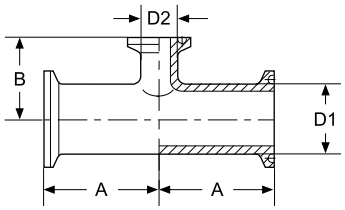




| Size | D | A | B | C | kg |
|---|---|---|---|---|---|
| 1" | 25.4 | 55 | 37.5 | | |
| 1 1/4" | 31.8 | 59.5 | 40.5 | | |
| 1 1/2" | 38.1 | 70 | 43.5 | | |
| 2" | 50.8 | 82 | 50 | | |
| 2 1/2" | 63.5 | 105 | 56.5 | | |
| 3" | 76.1 | 110 | 62.5 | | |
| 3 1/2" | 88.9 | 125 | 69 | | |
| 4" | 101.6 | 148.5 | 76 | | |

# ISO/IDF Cassette Fittings

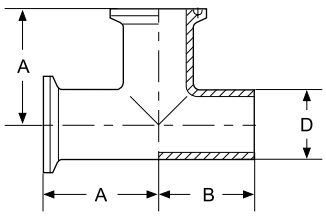
## Clamped reducing equal tee/Clamped reducing short tee

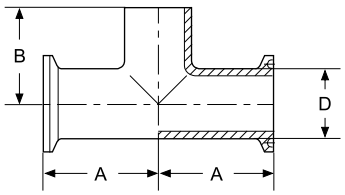



| Size | D1 | D2 | A | B | C | kg |
|---|---|---|---|---|---|---|
| 1 1/2"×1" | 38.1 | 25.4 | 70 | 43.5 | 66 | |
| 2"×1 1/2" | 50.8 | 38.1 | 82 | 50 | 85 | |
| 2"×1" | 50.8 | 25.4 | 82 | 50 | 72.5 | |
| 2 1/2"×2" | 63.5 | 50.8 | 105 | 56.5 | 103.5 | |
| 2 1/2"×1 1/2" | 63.5 | 38.1 | 105 | 56.5 | 91.5 | |
| 2 1/2"×1" | 63.5 | 25.4 | 105 | 56.5 | 78.5 | |
| 3"×2 1/2" | 76.1 | 63.5 | 110 | 62.5 | 110 | |
| 3"×2" | 76.1 | 50.8 | 110 | 62.5 | 110 | |
| 3"×1 1/2" | 76.1 | 38.1 | 110 | 62.5 | 98 | |
| 4"×3" | 101.6 | 76.1 | 155 | 75.5 | 122.5 | |
| 4"×2 1/2" | 101.6 | 63.5 | 155 | 75.5 | 122.5 | |
| 4"×2" | 101.6 | 50.8 | 155 | 75.5 | 122.5 | |

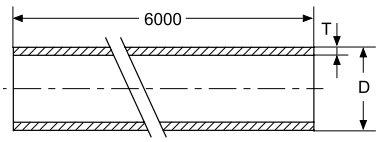
## Welded/Clamped tee



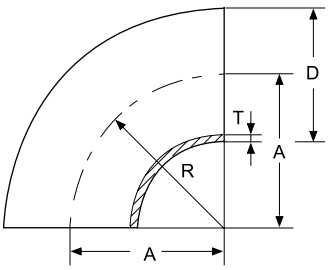

| Size | D | A | B | C | kg |
|---|---|---|---|---|---|
| 1" | 25.4 | 55 | 33.5 | | |
| 1 1/4" | 31.8 | 59.5 | 38 | | |
| 1 1/2" | 38.1 | 70 | 48.5 | | |
| 2" | 50.8 | 82 | 60.5 | | |
| 2 1/2" | 63.5 | 105 | 83.5 | | |
| 3" | 76.1 | 110 | 88.5 | | |
| 3 1/2" | 88.9 | 125 | 103.5 | | |
| 4" | 101.6 | 148.5 | 127 | | |

## ISO2037 pipeline OD x t



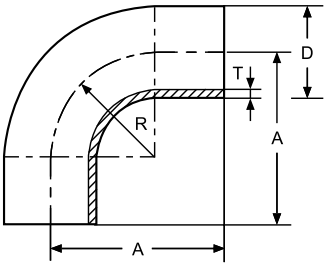

| Size | DxT | A | B | C | kg |
|---|---|---|---|---|---|
| 1" | 25×1.2 | | | | |
| 1 1/4" | 32×1.2 | | | | |
| 1 1/2" | 38×1.2 | | | | |
| 2" | 51×1.2 | | | | |
| 2 1/2" | 63.5×1.6 | | | | |
| 3" | 76.1×1.6 | | | | |
| 4" | 101.6×2.0 | | | | |

## 90° Welded short elbow(R=1.5D)



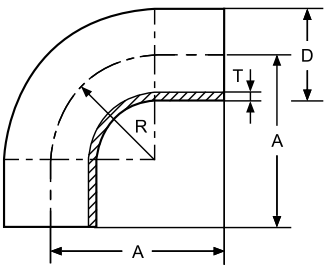

| Size | DxT | A | B | R | kg |
|---|---|---|---|---|---|
| 1" | 25×1.2 | 38 | | 37.5 | |
| 1 1/2" | 38×1.2 | 57 | | 57.0 | |
| 2" | 51×1.2 | 76 | | 76.5 | |
| 2 1/2" | 63.5×1.6 | 95 | | 95.3 | |
| 3" | 76.1×1.6 | 114 | | 114.2 | |
| 4" | 101.6×2.0 | 152 | | 152.4 | |

## 90° Welded long elbow(R=1.5D)




| Size | DxT | A | B | R | kg |
|---|---|---|---|---|---|
| 1" | 25×1.2 | 65 | 27.5 | 37.5 | |
| 1 1/2" | 38×1.2 | 85 | 58 | 57.0 | |
| 2" | 51×1.2 | 110 | 33.5 | 76.5 | |
| 2 1/2" | 63.5×1.6 | 135 | 39.7 | 95.3 | |
| 3" | 76.1×1.6 | 155 | 40.8 | 114.2 | |
| 4" | 101.6×2.0 | 195 | 42.6 | 152.4 | |

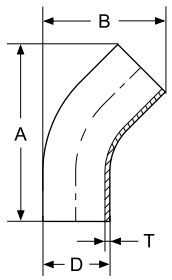
## 90° Welded long elbow(R=1.0D)




| Size | DxT | A | B | R | kg |
|---|---|---|---|---|---|
| 1" | 25×1.2 | 55 | 30 | 25 | |
| 1 1/4" | 32×1.2 | 65 | 33 | 32 | |
| 1 1/2" | 38×1.2 | 70 | 32 | 38 | |
| 2" | 51×1.2 | 82 | 31 | 51 | |
| 2 1/2" | 63.5×1.6 | 105 | 41.5 | 63.5 | |
| 3" | 76.1×1.6 | 110 | 34 | 76 | |
| 4" | 101.6×2.0 | 150 | - | 149 | |

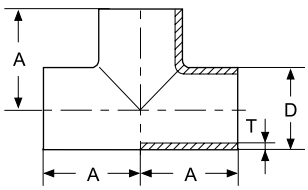
# ISO2037 welded pipe fittings

## 45° Welded long elbow



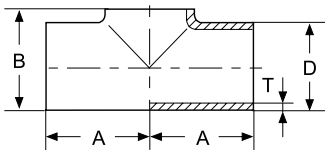

| Size | DxT | A | B | C | kg |
|---|---|---|---|---|---|
| 1" | 25×1.2 | 70 | 47 | | |
| 1 1/2" | 38×1.2 | 87 | 63 | | |
| 2" | 51×1.2 | 119.5 | 86.5 | | |
| 2 1/2" | 63.5×1.6 | 136 | 101 | | |
| 3" | 76.1×1.6 | 157 | 119 | | |
| 4" | 101.6×2.0 | 226.5 | 166 | | |

## Welded equal tee



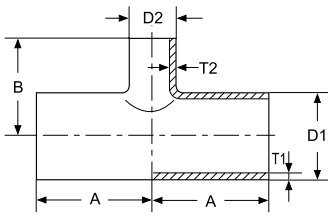

| Size | DxT | A | B | C | kg |
|---|---|---|---|---|---|
| 1" | 25×1.2 | 55 | | | |
| 1 1/2" | 38×1.2 | 70 | | | |
| 2" | 51×1.2 | 82 | | | |
| 2 1/2" | 63.5×1.6 | 105 | | | |
| 3" | 76.1×1.6 | 110 | | | |
| 4" | 101.6×2.0 | 150 | | | |

## Welded pulled short tee




| Size | DxT | A | B | C | kg |
|---|---|---|---|---|---|
| 1" | 25×1.2 | 55 | 27 | | |
| 1 1/2" | 38×1.2 | 70 | 40.5 | | |
| 2" | 51×1.2 | 82 | 54.5 | | |
| 2 1/2" | 63.5×1.6 | 105 | 67 | | |
| 3" | 76.1×1.6 | 110 | 81 | | |
| 4" | 101.6×2.0 | 150 | 107 | | |

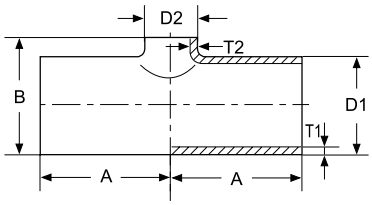
## Welded reducing tee




| Size | D1×T1 | D2×T2 | A | B | C | kg |
|---|---|---|---|---|---|---|
| 1 1/2"×1" | 38×1.2 | 25×1.2 | 70 | 70 | | |
| 2"×1" | 51×1.2 | 38×1.2 | 82 | 70 | | |
| 2"×1 1/2" | 51×1.2 | 38×1.2 | 82 | 70 | | |
| 2 1/2"x1" | 61.5x1.6 | 25x1.2 | 105 | 70 | | |
| 2 1/2"×1 1/2" | 63.5×1.6 | 38×1.2 | 105 | 70 | | |
| 2 1/2"×2" | 63.5×1.6 | 51×1.2 | 105 | 82 | | |
| 3"x1" | 76.1×1.6 | 25x1.2 | 110 | 80 | | |
| 3"×1 1/2" | 76.1×1.6 | 38×1.2 | 110 | 80 | | |
| 3"×2" | 76.1×1.6 | 50.8×1.2 | 110 | 82 | | |
| 3"×2 1/2" | 76.1×1.6 | 63.5×1.6 | 110 | 82 | | |
| 4"x1" | 101.6x2.0 | 25x1.2 | 150 | 110 | | |
| 4"x1 1/2" | 101.6x2.0 | 38x1.2 | 150 | 110 | | |
| 4"×2" | 101.6×2.0 | 51×1.2 | 150 | 120 | | |
| 4"×2 1/2" | 101.6×2.0 | 63.5×1.6 | 150 | 120 | | |
| 4"×3" | 101.6×2.5 | 76.1×1.6 | 150 | 120 | | |

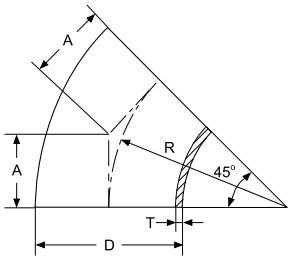
# ISO2037 welded pipe fittings

## Welded reducing pulled tee



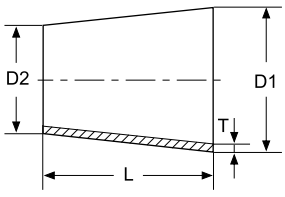

| Size | D1×T1 | D2×T2 | A | B | C | kg |
|---|---|---|---|---|---|---|
| 1 1/2"×1" | 38×1.2 | 25×1.2 | 70 | 40.7 | | |
| 2"×1" | 51×1.2 | 38×1.2 | 82 | 54.1 | | |
| 2"×1 1/2" | 51×1.2 | 38×1.2 | 82 | 54.1 | | |
| 2 1/2"x1" | 61.5x1.6 | 25x1.2 | 105 | 66.5 | | |
| 2 1/2"×1 1/2" | 63.5×1.6 | 38×1.2 | 105 | 67.5 | | |
| 2 1/2"×2" | 63.5×1.6 | 51×1.2 | 105 | 66.5 | | |
| 3"x1" | 76.1×1.6 | 25x1.2 | 110 | 80.0 | | |
| 3"×1 1/2" | 76.1×1.6 | 38×1.2 | 110 | 80.6 | | |
| 3"×2" | 76.1×1.6 | 51×1.2 | 110 | 80.6 | | |
| 3"×2 1/2" | 76.1×1.6 | 63.5×1.6 | 110 | 80.0 | | |
| 4"x1" | 101.6x2.0 | 25x1.2 | 150 | 105.0 | | |
| 4"x1 1/2" | 101.6x2.0 | 38x1.2 | 150 | 106.0 | | |
| 4"×2" | 101.6×2.0 | 51×1.2 | 150 | 106.6 | | |
| 4"×2 1/2" | 101.6×2.0 | 63.5×1.6 | 150 | 106.6 | | |
| 4"×3" | 101.6×2.0 | 76.1×1.6 | 150 | 106.6 | | |

## 45° Welded short elbow(R=1.5D)



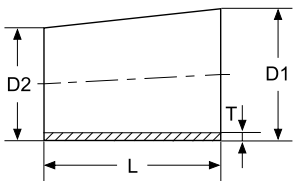

| Size | DxT | A | B | R | kg |
|---|---|---|---|---|---|
| 1" | 25×1.2 | 15.5 | | 37.5 | |
| 1 1/2" | 38×1.2 | 23.6 | | 57.0 | |
| 2" | 51×1.2 | 31.7 | | 76.5 | |
| 2 1/2" | 63.5×1.6 | 39.5 | | 95.3 | |
| 3" | 76.1×1.6 | 47.3 | | 114.2 | |
| 4" | 101.6×2.0 | 63.1 | | 152.4 | |

## Welded concentric reducer without straight ends




| Size | D1xD2xT | L | kg |
|---|---|---|---|
| 1 1/2"×1" | 38×25×1.2 | 44 | |
| 2"×1 1/2" | 51×38×1.2 | 42 | |
| 2"×1" | 51×25×1.2 | 86 | |
| 2 1/2"×2" | 63.5×51×1.6 | 40 | |
| 2 1/2"×1 1/2" | 63.5×38×1.6 | 82 | |
| 3"×2 1/2" | 76.1×63.5×1.6 | 39 | |
| 3"×2" | 76.1×51×1.6 | 79 | |
| 4"×3" | 101.6×76.1×2.0 | 81 | |

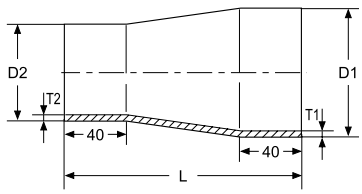
## Welded eccentric reducer without straight ends




| Size | D1xD2xT | L | kg |
|---|---|---|---|
| 1 1/2"×1" | 38×25×1.2 | 44 | |
| 2"×1 1/2" | 51×38×1.2 | 42 | |
| 2"×1" | 51×25×1.2 | 86 | |
| 2 1/2"×2" | 63.5×51×1.6 | 40 | |
| 2 1/2"×1 1/2" | 63.5×38×1.6 | 82 | |
| 3"×2 1/2" | 76.1×63.5×1.6 | 39 | |
| 3"×2" | 76.1×51×1.6 | 79 | |
| 4"×3" | 101.6×76.1×2.0 | 81 | |

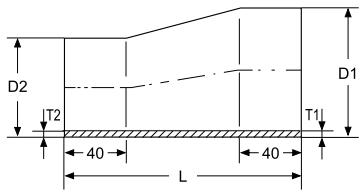
# ISO2037 welded pipe fittings

## Welded concentric reducer with straight ends



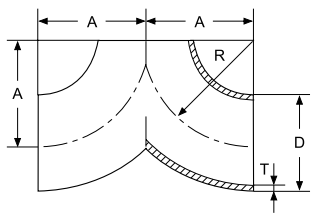

| Size | D1×T1 | D2×T2 | L | kg |
|---|---|---|---|---|
| 1 1/2"×1" | 38×1.2 | 25×1.2 | 97 | |
| 2"×1 1/2" | 51×1.2 | 38×1.2 | 97 | |
| 2"×1" | 51×1.2 | 25×1.2 | 115 | |
| 2 1/2"×2" | 63.5×1.6 | 51×1.2 | 97 | |
| 2 1/2"×1 1/2" | 63.5×1.6 | 38×1.2 | 120 | |
| 3"×2 1/2" | 76.1×1.6 | 63.5×1.6 | 97 | |
| 3"×2" | 76.1×1.6 | 51×1.2 | 115 | |
| 3"×1 1/2" | 76.1×1.6 | 38×1.2 | 130 | |
| 4"×3" | 101.6×2 | 76.1×1.6 | 120 | |
| 4"×2 1/2" | 101.6×2 | 63.5×1.6 | 140 | |
| 4"×2" | 101.6×2 | 51×1.2 | 150 | |

## Welded eccentric reducer with straight ends



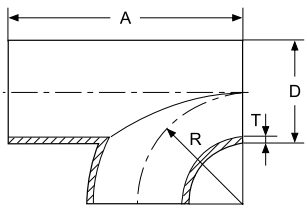

| Size | D1×T1 | D2×T2 | L | kg |
|---|---|---|---|---|
| 1 1/2"×1" | 38×1.2 | 25×1.2 | 100 | |
| 2"×1 1/2" | 51×1.2 | 38×1.2 | 100 | |
| 2"×1" | 51×1.2 | 25×1.2 | 120 | |
| 2 1/2"×2" | 63.5×1.6 | 51×1.2 | 105 | |
| 2 1/2"×1 1/2" | 63.5×1.6 | 38×1.2 | 140 | |
| 3"×2 1/2" | 76.1×1.6 | 63.5×1.6 | 105 | |
| 3"×2" | 76.1×1.6 | 51×1.2 | 135 | |
| 3"×1 1/2" | 76.1×1.6 | 38×1.2 | — | |
| 4"×3" | 101.6×2 | 76.1×1.6 | 135 | |
| 4"×2 1/2" | 101.6×2 | 63.5×1.6 | 170 | |
| 4"×2" | 101.6×2 | 51×1.2 | — | |

## Welded R type tee




| Size | DxT | A | B | R | kg |
|---|---|---|---|---|---|
| 1" | 25×1.2 | 38 | | 37.5 | |
| 1 1/2" | 38×1.2 | 57 | | 57.0 | |
| 2" | 51×1.2 | 76 | | 76.5 | |
| 2 1/2" | 63.5×1.6 | 95 | | 95.3 | |
| 3" | 75.1×1.6 | 114 | | 114.2 | |
| 4" | 101.6×2.0 | 152 | | 152.4 | |

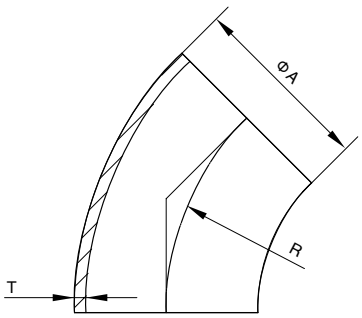
## Welded R type tee




| Size | DxT | A | B | R | kg |
|---|---|---|---|---|---|
| 1" | 25×1.2 | 56 | | 37.5 | |
| 1 1/2" | 38×1.2 | 114 | | 57.0 | |
| 2" | 51×1.2 | 152 | | 76.5 | |
| 2 1/2" | 63.5×1.6 | 190 | | 95.3 | |
| 3" | 75.1×1.6 | 228 | | 114.2 | |
| 4" | 101.6×2.0 | 304 | | 152.4 | |

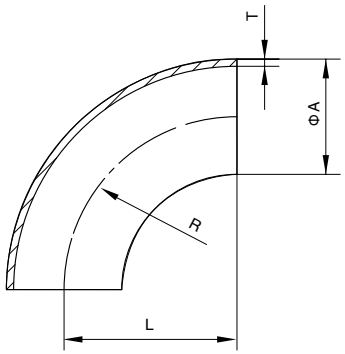
# ISO1127 welded pipe fittings

## 45° Welded short elbow



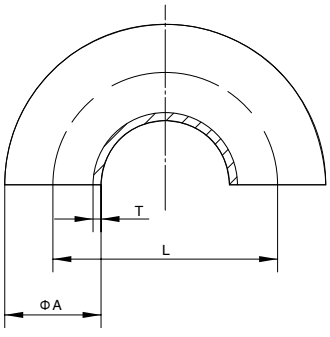

| ISO | A | R | T | kg |
|---|---|---|---|---|
| 13.5 | 13.5 | 20 | 1.6 | |
| 17.2 | 17.2 | 28 | 1.6 | |
| 21.3 | 21.3 | 30 | 1.6 | |
| 26.9 | 26.9 | 28(min) | 1.6 | |
| 33.7 | 33.7 | 38 | 2 | |
| 42.4 | 42.4 | 47.5 | 2 | |
| 48.3 | 48.3 | 57 | 2 | |
| 60.3 | 60.3 | 76 | 2 | |
| 76.1 | 76.1 | 95 | 2 | |
| 88.9 | 88.9 | 114.5 | 2.3 | |
| 101.6 | 101.6 | 133 | 2.3 | |
| 114.3 | 114.3 | 152 | 2.3 | |

## 90° Welded short elbow




| ISO | A | R | L | T | kg |
|---|---|---|---|---|---|
| 13.5 | 13.5 | 20 | 20 | 1.6 | |
| 17.2 | 17.2 | 28 | 28 | 1.6 | |
| 21.3 | 21.3 | 30 | 30 | 1.6 | |
| 26.9 | 26.9 | 28(min) | 28(min) | 1.6 | |
| 33.7 | 33.7 | 38 | 38 | 2 | |
| 42.4 | 42.4 | 47.5 | 47.5 | 2 | |
| 48.3 | 48.3 | 57 | 57 | 2 | |
| 60.3 | 60.3 | 76 | 76 | 2 | |
| 76.1 | 76.1 | 95 | 95 | 2 | |
| 88.9 | 88.9 | 114.5 | 114.5 | 2.3 | |
| 101.6 | 101.6 | 133 | 133 | 2.3 | |
| 114.3 | 114.3 | 152 | 152 | 2.3 | |

## 180° Welded short elbow

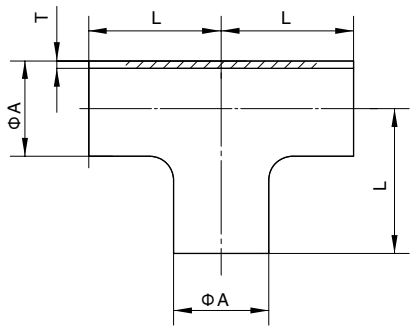



| ISO | A | L | T | kg |
|---|---|---|---|---|
| 13.5 | 13.5 | 40 | 1.6 | |
| 17.2 | 17.2 | 56 | 1.6 | |
| 21.3 | 21.3 | 60 | 1.6 | |
| 26.9 | 26.9 | 56 | 1.6 | |
| 33.7 | 33.7 | 76 | 2 | |
| 42.4 | 42.4 | 95 | 2 | |
| 48.3 | 48.3 | 114 | 2 | |
| 60.3 | 60.3 | 152 | 2 | |
| 76.1 | 76.1 | 191 | 2 | |
| 88.9 | 88.9 | 229 | 2.3 | |
| 101.6 | 101.6 | 267 | 2.3 | |
| 114.3 | 114.3 | 305 | 2.3 | |

*Produce ISO1127 series 1,series 2, series 3 pipe-fitting

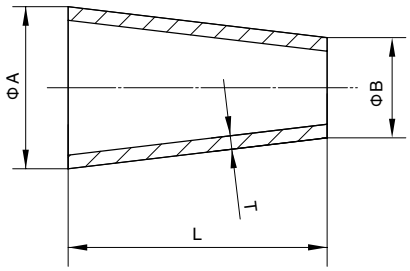
# ISO 1127 Fittings

## Welded equal tee




| Size | A | L | T | kg |
|---|---|---|---|---|
| 13.5 | 13.5 | 20 | 1.6 | |
| 17.2 | 17.2 | 28 | 1.6 | |
| 21.3 | 21.3 | 30 | 1.6 | |
| 26.9 | 26.9 | 28(min) | 1.6 | |
| 33.7 | 33.7 | 38 | 2 | |
| 42.4 | 42.4 | 48 | 2 | |
| 48.3 | 48.3 | 57 | 2 | |
| 60.3 | 60.3 | 64 | 2 | |
| 76.1 | 76.1 | 76 | 2 | |
| 88.9 | 88.9 | 86 | 2.3 | |
| 101.6 | 101.6 | 95 | 2.3 | |
| 114.3 | 114.3 | 105 | 2.3 | |

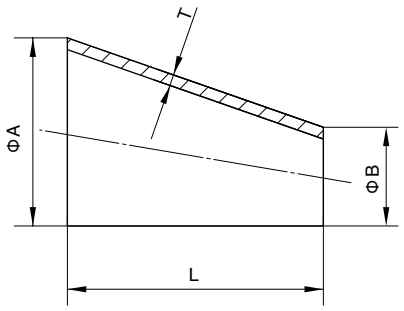
## Welded concentric reducer without straight ends




I.L31

| Size | A | B | L | T | kg |
|---|---|---|---|---|---|
| 26.9 x 17.3 | 26.9 | 17.3 | 38 | 1.6 | |
| 26.9 x 21.3 | 26.9 | 21.3 | 38 | 2 | |
| 33.7 x 21.3 | 33.7 | 21.3 | 51 | 2 | |
| 33.7 x 26.9 | 33.7 | 26.9 | 51 | 2 | |
| 42.4 x 21.3 | 42.4 | 21.3 | 51 | 2 | |
| 42.4 x 26.9 | 42.4 | 26.9 | 51 | 2 | |
| 42.4 x 33.7 | 42.4 | 33.7 | 51 | 2 | |
| 48.3 x 21.3 | 48.3 | 21.3 | 64 | 2 | |
| 48.3 x 26.9 | 48.3 | 26.9 | 64 | 2 | |
| 48.3 x 33.7 | 48.3 | 33.7 | 64 | 2 | |
| 48.3 x 42.4 | 48.3 | 42.4 | 64 | 2 | |
| 60.3 x 26.9 | 60.3 | 26.9 | 76 | 2 | |
| 60.3 x 33.7 | 60.3 | 33.7 | 76 | 2 | |
| 60.3 x 42.4 | 60.3 | 42.4 | 76 | 2 | |
| 60.3 x 48.3 | 60.3 | 48.3 | 76 | 2 | |
| 76.1 x 33.7 | 76.1 | 33.7 | 89 | 2 | |
| 76.1 x 42.4 | 76.1 | 42.4 | 89 | 2 | |
| 76.1 x 48.3 | 76.1 | 48.3 | 89 | 2 | |
| 76.1 x 60.3 | 76.1 | 60.3 | 89 | 2 | |
| 88.9 x 42.4 | 88.9 | 42.4 | 89 | 2.3 | |
| 88.9 x 48.3 | 88.9 | 48.3 | 89 | 2.3 | |
| 88.9 x 60.3 | 88.9 | 60.3 | 89 | 2.3 | |
| 88.9 x 76.1 | 88.9 | 76.1 | 89 | 2.3 | |
| 101.6 x 42.4 | 101.6 | 42.4 | 102 | 2.3 | |
| 101.6 x 48.3 | 101.6 | 48.3 | 102 | 2.3 | |
| 101.6 x 60.3 | 101.6 | 60.3 | 102 | 2.3 | |
| 101.6 x 76.1 | 101.6 | 76.1 | 102 | 2.3 | |
| 101.6 x 88.9 | 101.6 | 88.9 | 102 | 2.3 | |
| 114.3 x 48.3 | 114.3 | 48.3 | 102 | 2.3 | |
| 114.3 x 60.3 | 114.3 | 60.3 | 102 | 2.3 | |
| 114.3 x 76.1 | 114.3 | 76.1 | 102 | 2.3 | |
| 114.3 x 88.9 | 114.3 | 88.9 | 102 | 2.3 | |
| 114.3 x 104.6 | 114.3 | 104.6 | 102 | 2.3 | |

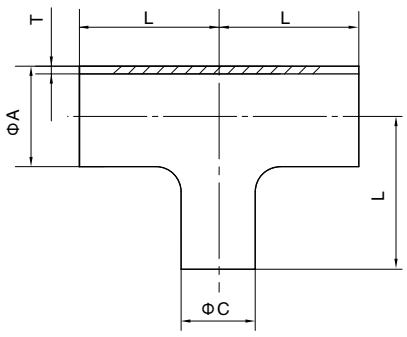
## Welded eccentric reducer without straight ends




I.L32

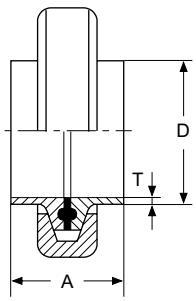
| Size | A | B | L | T | kg |
|---|---|---|---|---|---|
| 26.9 x 17.3 | 26.9 | 17.3 | 38 | 1.6 | |
| 26.9 x 21.3 | 26.9 | 21.3 | 38 | 2 | |
| 33.7 x 21.3 | 33.7 | 21.3 | 51 | 2 | |
| 33.7 x 26.9 | 33.7 | 26.9 | 51 | 2 | |
| 42.4 x 21.3 | 42.4 | 21.3 | 51 | 2 | |
| 42.4 x 26.9 | 42.4 | 26.9 | 51 | 2 | |
| 42.4 x 33.7 | 42.4 | 33.7 | 51 | 2 | |
| 48.3 x 21.3 | 48.3 | 21.3 | 64 | 2 | |
| 48.3 x 26.9 | 48.3 | 26.9 | 64 | 2 | |
| 48.3 x 33.7 | 48.3 | 33.7 | 64 | 2 | |
| 48.3 x 42.4 | 48.3 | 42.4 | 64 | 2 | |
| 60.3 x 26.9 | 60.3 | 26.9 | 76 | 2 | |
| 60.3 x 33.7 | 60.3 | 33.7 | 76 | 2 | |
| 60.3 x 42.4 | 60.3 | 42.4 | 76 | 2 | |
| 60.3 x 48.3 | 60.3 | 48.3 | 76 | 2 | |
| 76.1 x 33.7 | 76.1 | 33.7 | 89 | 2 | |
| 76.1 x 42.4 | 76.1 | 42.4 | 89 | 2 | |
| 76.1 x 48.3 | 76.1 | 48.3 | 89 | 2 | |
| 76.1 x 60.3 | 76.1 | 60.3 | 89 | 2 | |
| 88.9 x 42.4 | 88.9 | 42.4 | 89 | 2.3 | |
| 88.9 x 48.3 | 88.9 | 48.3 | 89 | 2.3 | |
| 88.9 x 60.3 | 88.9 | 60.3 | 89 | 2.3 | |
| 88.9 x 76.1 | 88.9 | 76.1 | 89 | 2.3 | |
| 101.6 x 42.4 | 101.6 | 42.4 | 102 | 2.3 | |
| 101.6 x 48.3 | 101.6 | 48.3 | 102 | 2.3 | |
| 101.6 x 60.3 | 101.6 | 60.3 | 102 | 2.3 | |
| 101.6 x 76.1 | 101.6 | 76.1 | 102 | 2.3 | |
| 101.6 x 88.9 | 101.6 | 88.9 | 102 | 2.3 | |
| 114.3 x 48.3 | 114.3 | 48.3 | 102 | 2.3 | |
| 114.3 x 60.3 | 114.3 | 60.3 | 102 | 2.3 | |
| 114.3 x 76.1 | 114.3 | 76.1 | 102 | 2.3 | |
| 114.3 x 88.9 | 114.3 | 88.9 | 102 | 2.3 | |
| 114.3 x 104.6 | 114.3 | 104.6 | 102 | 2.3 | |

## Welded reducing tee



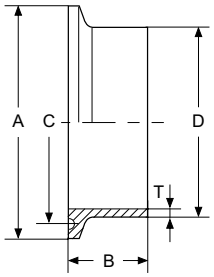

| Size | A | C | L | T | kg |
|---|---|---|---|---|---|
| 26.9 x 21.3 | 26.9 | 21.3 | 29 | 1.6 | |
| 33.7 x 21.3 | 33.7 | 21.3 | 38 | 2.0 | |
| 33.7 x 26.9 | 33.7 | 26.9 | 38 | 2.0 | |
| 42.4 x 21.3 | 42.4 | 21.3 | 48 | 2.0 | |
| 42.4 x 26.9 | 42.4 | 26.9 | 48 | 2.0 | |
| 42.4 x 33.7 | 42.4 | 33.7 | 48 | 2.0 | |
| 48.3 x 21.3 | 48.3 | 21.3 | 57 | 2.0 | |
| 48.3 x 26.9 | 48.3 | 26.9 | 57 | 2.0 | |
| 48.3 x 33.7 | 48.3 | 33.7 | 57 | 2.0 | |
| 48.3 x 42.4 | 48.3 | 42.4 | 57 | 2.0 | |
| 60.3 x 26.9 | 60.3 | 26.9 | 64 | 2.0 | |
| 60.3 x 33.7 | 60.3 | 33.7 | 64 | 2.0 | |
| 60.3 x 42.4 | 60.3 | 42.4 | 64 | 2.0 | |
| 60.3 x 48.3 | 60.3 | 48.3 | 64 | 2.0 | |
| 76.1 x 33.7 | 76.1 | 33.7 | 76 | 2.0 | |
| 76.1 x 42.4 | 76.1 | 42.4 | 76 | 2.0 | |
| 76.1 x 48.3 | 76.1 | 48.3 | 76 | 2.0 | |
| 76.1 x 60.3 | 76.1 | 60.3 | 76 | 2.0 | |
| 88.9 x 42.4 | 88.9 | 42.4 | 86 | 2.3 | |
| 88.9 x 48.3 | 88.9 | 48.3 | 86 | 2.3 | |
| 88.9 x 60.3 | 88.9 | 60.3 | 86 | 2.3 | |
| 88.9 x 76.1 | 88.9 | 76.1 | 86 | 2.3 | |
| 101.6 x 42.4 | 101.6 | 42.4 | 95 | 2.3 | |
| 101.6 x 48.3 | 101.6 | 48.3 | 95 | 2.3 | |
| 101.6 x 60.3 | 101.6 | 60.3 | 95 | 2.3 | |
| 101.6 x 76.1 | 101.6 | 76.1 | 95 | 2.3 | |
| 101.6 x 88.9 | 101.6 | 88.9 | 95 | 2.3 | |
| 114.3 x 48.3 | 114.3 | 48.3 | 105 | 2.3 | |
| 114.3 x 60.3 | 114.3 | 60.3 | 105 | 2.3 | |
| 114.3 x 76.1 | 114.3 | 76.1 | 105 | 2.3 | |
| 114.3 x 88.9 | 114.3 | 88.9 | 105 | 2.3 | |
| 114.3 x 104.6 | 114.3 | 104.6 | 105 | 2.3 | |

## ISO2852 Clamped ferrule assembly



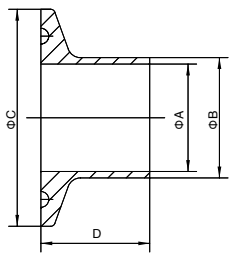

| Size | DxT | A | B | C | kg |
|---|---|---|---|---|---|
| 1" | 25.4×1.5 | 45 | | | |
| 1 1/4" | 31.8x1.5 | 45 | | | |
| 1 1/2" | 38.1×1.5 | 45 | | | |
| 2" | 50.8x1.5 | 45 | | | |
| 2 1/2" | 63.5x2 | 45 | | | |
| 3" | 76.1x2 | 45 | | | |
| 3 1/2" | 88.9x2 | 45 | | | |
| 4" | 101.6x2 | 58 | | | |
| 4.5" | 114.3x2 | 58 | | | |
| 5.5" | 139.7x3 | 58 | | | |
| 6.5" | 165.2x3 | 58 | | | |

## ISO2852 Clamped ferrule



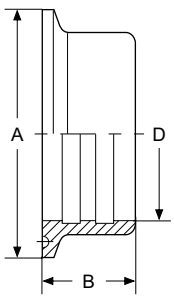

| Size | DxT | A | B | C | kg |
|---|---|---|---|---|---|
| 1" | 25.4×1.5 | 50.5 | 21.5 | 43.5 | |
| 1 1/4" | 31.8x1.5 | 50.5 | 21.5 | 43.5 | |
| 1 1/2" | 38.1×1.5 | 50.5 | 21.5 | 43.5 | |
| 2" | 50.8x1.5 | 64 | 21.5 | 56.5 | |
| 2 1/2" | 63.5x2 | 77.5 | 21.5 | 70.5 | |
| 3" | 76.1x2 | 91 | 21.5 | 83.5 | |
| 3 1/2" | 88.9x2 | 106 | 21.5 | 97 | |
| 4" | 101.6x2 | 119 | 28 | 110 | |
| 4.5" | 114.3x2 | 130 | 28 | 122 | |
| 5.5" | 139.7x3 | 155 | 28 | 146 | |
| 6.5" | 165.2x3 | 183 | 28 | 174 | |

## Clamped ferrule



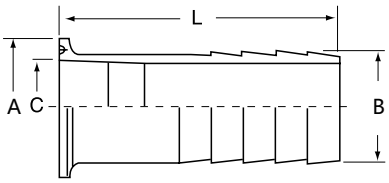

| Size | A | B | C | D | | | kg |
|---|---|---|---|---|---|---|---|
| | | | | 14WMP | 14MMP | 14AMP | |
| 10.2 | 7.0 | 10.2 | 34.0 | 12.7 | 21.5 | 28.6 | |
| 13.5 | 10.3 | 13.5 | 34.0 | 12.7 | 21.5 | 28.6 | |
| 17.2 | 14 | 17.2 | 34.0 | 12.7 | 21.5 | 28.6 | |
| 21.3 | 18.1 | 21.3 | 34.0 | 12.7 | 21.5 | 28.6 | |
| 26.9 | 23.7 | 26.9 | 50.5 | 12.7 | 21.5 | 28.6 | |
| 33.7 | 29.7 | 33.7 | 50.5 | 12.7 | 21.5 | 28.6 | |
| 42.4 | 38.4 | 42.4 | 50.5 | 12.7 | 21.5 | 28.6 | |
| 48.3 | 44.3 | 48.3 | 64.0 | 12.7 | 21.5 | 28.6 | |
| 60.3 | 56.3 | 60.3 | 77.5 | 12.7 | 21.5 | 28.6 | |
| 76.1 | 71.5 | 76.1 | 91.0 | 12.7 | 21.5 | 28.6 | |
| 88.9 | 84.3 | 88.9 | 106.0 | 12.7 | 21.5 | 28.6 | |
| 114.3 | 109.1 | 114.3 | 130.0 | 15.8 | 21.5 | 28.6 | |
| 139.7 | 134.5 | 139.7 | 155.0 | 15.8 | 21.5 | 28.6 | |
| 168.3 | 163.1 | 168.3 | 183.0 | - | 21.5 | 28.6 | |
| 219.1 | 213.9 | 219.3 | 233.5 | - | 21.5 | 28.6 | |

## Expanded ferrule



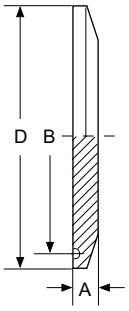

| Size | DxT | A | B | C | kg |
|---|---|---|---|---|---|
| 1" | 25.6 | 50.5 | 20 | | |
| 1 1/2" | 38.3 | 50.5 | 20 | | |
| 2" | 51 | 64 | 25 | | |
| 2 1/2" | 63.7 | 77.5 | 30 | | |
| 3" | 76.3 | 91 | 30 | | |
| 4" | 101.9 | 119 | 35 | | |

## Clamped hose barb adapter



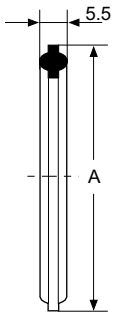

| Size | A | B | C | L | kg |
|---|---|---|---|---|---|
| 1" | 50.5 | 25.4 | 21.4 | 69 | |
| 1 1/4" | 50.5 | 31.8 | 27.8 | 81 | |
| 1 1/2" | 50.5 | 38.1 | 34.1 | 81 | |
| 2" | 64 | 50.8 | 44.8 | 81 | |
| 2 1/2" | 77.5 | 63.5 | 57.5 | 91 | |
| 3" | 91 | 76.3 | 70.3 | 101 | |
| 3 1/2" | 106 | 89.1 | 81.1 | 101 | |
| 4" | 119 | 101.6 | 93.6 | 101 | |

## Clamped blind cap




| Size | D | T | A | B | C | kg |
|---|---|---|---|---|---|---|
| 1" | 50.5 | | 6.3 | 43.5 | | |
| 1 1/4" | 50.5 | | 6.3 | 43.5 | | |
| 1 1/2" | 50.5 | | 6.3 | 43.5 | | |
| 2" | 64 | | 6.3 | 56.5 | | |
| 2 1/2" | 77.5 | | 6.3 | 70.5 | | |
| 3" | 91 | | 6.3 | 83.5 | | |
| 3 1/2" | 106 | | 6.3 | 97 | | |
| 4" | 119 | | 7.9 | 110 | | |
| 4.5" | 130 | | 7.9 | 122 | | |
| 5.5" | 155 | | 11.1 | 146 | | |
| 6.5" | 183 | | 11.1 | 174 | | |

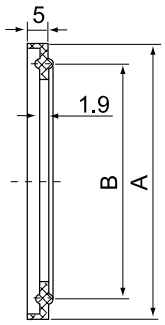
## Gasket for ferrule




| Size | DxT | A | B | S | kg |
|---|---|---|---|---|---|
| 1" | | 50.5 | | | |
| 1 1/4" | | 50.5 | | | |
| 1 1/2" | | 50.5 | | | |
| 2" | | 64 | | | |
| 2 1/2" | | 77.5 | | | |
| 3" | | 91 | | | |
| 3 1/2" | | 106 | | | |
| 4" | | 119 | | | |
| 4.5" | | 130 | | | |
| 5.5" | | 155 | | | |
| 6.5" | | 183 | | | |

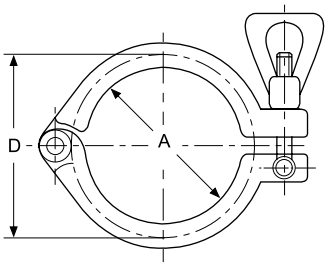
# ISO clamp,ferrule and accessories

## Gasket for ferrule



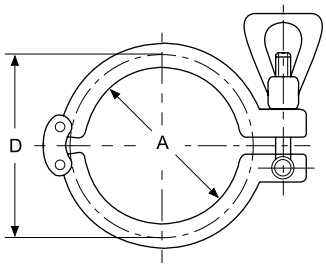

| Size | A | B | | kg |
|---|---|---|---|---|
| 1" | 52.7 | 43.5 | | |
| 1 1/4" | 52.7 | 43.5 | | |
| 1 1/2" | 52.7 | 43.5 | | |
| 2" | 66.2 | 56.5 | | |
| 2 1/2" | 79.7 | 70.5 | | |
| 3" | 93.2 | 83.5 | | |
| 3 1/2" | 108.2 | 97 | | |
| 4" | 121.2 | 110 | | |
| 4.5" | 132.2 | 122 | | |
| 5.5" | 157.2 | 146 | | |
| 6.5" | 185.2 | 174 | | |

## Single pin clamp



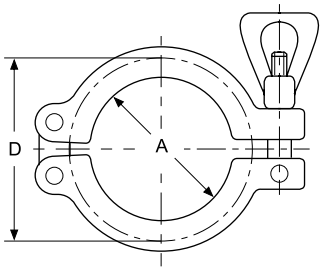

| Size | D | T | A | B | C | kg |
|---|---|---|---|---|---|---|
| 3/4" | 37 | | 27 | | | |
| 1" | 54 | | 43.5 | | | |
| 1 1/4" | 54 | | 43.5 | | | |
| 1 1/2" | 54 | | 43.5 | | | |
| 2" | 67 | | 57 | | | |
| 2 1/2" | 80.5 | | 70.5 | | | |
| 3" | 94 | | 84 | | | |
| 3 1/2" | 109 | | 99 | | | |
| 4" | 122 | | 112 | | | |
| 4.5" | 133 | | 124 | | | |

## Double pin clamp



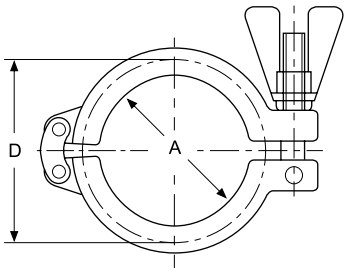

| Size | D | T | A | B | C | kg |
|---|---|---|---|---|---|---|
| 1" | 54 | | 46 | | | |
| 1 1/4" | 54 | | 46 | | | |
| 1 1/2" | 54 | | 46 | | | |
| 2" | 67 | | 60 | | | |
| 2 1/2" | 80.5 | | 72 | | | |
| 3" | 94 | | 83 | | | |
| 4" | 122 | | 110 | | | |

## Double pin clamp



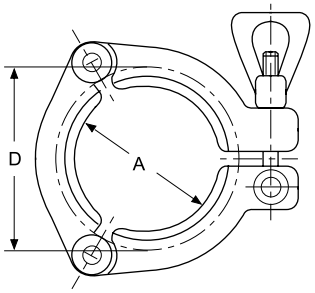

| Size | D | T | A | B | C | kg |
|---|---|---|---|---|---|---|
| 1/2" | 28 | | 21 | | | |
| 1" | 55 | | 45 | | | |
| 1 1/2" | 55 | | 45 | | | |
| 2" | 69 | | 59 | | | |
| 2 1/2" | 82 | | 72 | | | |
| 3" | 95.5 | | 85.5 | | | |
| 3 1/2" | 110.5 | | 100.5 | | | |
| 4" | 123.5 | | 113.5 | | | |

## Double pin clamp




| Size | D | T | A | B | C | kg |
|---|---|---|---|---|---|---|
| 1" | 55 | | 45 | | | |
| 1 1/2" | 55 | | 45 | | | |
| 2" | 69 | | 59 | | | |
| 2 1/2" | 82 | | 72 | | | |
| 3" | 95.5 | | 85.5 | | | |
| 4" | 123.5 | | 113.5 | | | |

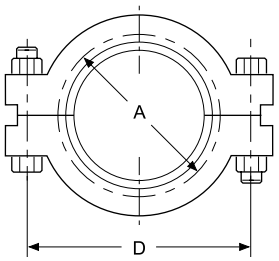
## 3 pieces clamp




| Size | D | T | A | B | C | kg |
|---|---|---|---|---|---|---|
| 1" | 54 | | 42 | | | |
| 1 1/4" | 54 | | 42 | | | |
| 1 1/2" | 54 | | 42 | | | |
| 2" | 67 | | 55 | | | |
| 2 1/2" | 80.5 | | 68 | | | |
| 3" | 94 | | 80 | | | |
| 3 1/2" | 109 | | 95 | | | |
| 4" | 122 | | 108 | | | |
| 5.5" | 158 | | 144 | | | |
| 6.5" | 186 | | 172 | | | |

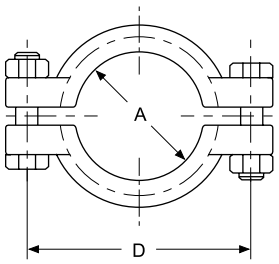
# ISO clamp,ferrule and accessories

## High pressure(heavy type)



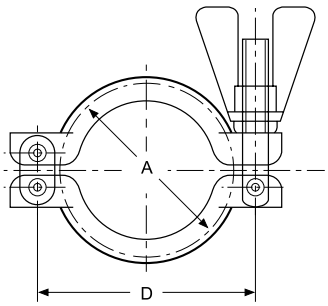

| Size | D | T | A | B | C | kg |
|---|---|---|---|---|---|---|
| 1" | 73 | | 52.5 | | | |
| 1 1/2" | 73 | | 52.5 | | | |
| 2" | 88 | | 66 | | | |
| 2 1/2" | 101 | | 79.5 | | | |
| 3" | 116 | | 93 | | | |
| 3 1/2" | 130 | | 109 | | | |
| 4" | 143 | | 121 | | | |

## High pressure(light type)




| Size | D | T | A | B | C | kg |
|---|---|---|---|---|---|---|
| 1" | 73 | | 46 | | | |
| 1 1/2" | 73 | | 46 | | | |
| 2" | 88 | | 60 | | | |
| 2 1/2" | 101 | | 72 | | | |
| 3" | 116 | | 83 | | | |
| 4" | 143 | | 110 | | | |

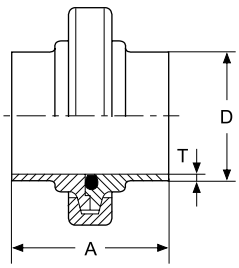
## Stamp Clamp




| Size | D | T | A | B | C | kg |
|---|---|---|---|---|---|---|
| 1" | 69 | | 55 | | | |
| 1 1/2" | 69 | | 55 | | | |
| 2" | 85 | | 68 | | | |
| 2 1/2" | 100 | | 81 | | | |
| 3" | 116 | | 95 | | | |
| 4" | 145 | | 123 | | | |

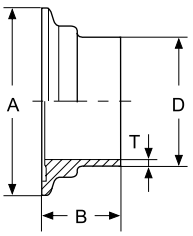
# ISO aseptic clamped ferrule

## Aseptic clamped ferrule assembly



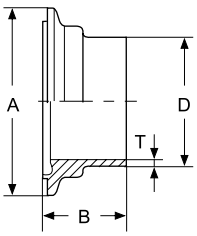

| Size | DxT | A | B | C | kg |
|---|---|---|---|---|---|
| 1" | 25.4×1.5 | 77 | | | |
| 1 1/2" | 38.1×1.5 | 88 | | | |
| 2" | 50.8×1.5 | 89 | | | |
| 2 1/2" | 63.5×2.0 | 115 | | | |
| 3" | 76.1×2.0 | 117 | | | |
| 4" | 101.6×2.0 | 119 | | | |

## Concave clamped ferrule



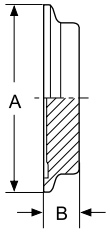

| Size | DxT | A | B | C | kg |
|---|---|---|---|---|---|
| 1" | 25.4×1.5 | 50.5 | 38.5 | | |
| 1 1/2" | 38.1×1.5 | 64 | 44 | | |
| 2" | 50.8×1.5 | 77.5 | 44.5 | | |
| 2 1/2" | 63.5×2.0 | 91 | 57.5 | | |
| 3" | 76.1×2.0 | 106 | 58.5 | | |
| 4" | 101.6×2.0 | 130 | 59.5 | | |

## Convex clamped ferrule




| Size | DxT | A | B | C | kg |
|---|---|---|---|---|---|
| 1" | 25.4×1.5 | 50.5 | 40 | | |
| 1 1/2" | 38.1×1.5 | 64 | 45.5 | | |
| 2" | 50.8×1.5 | 77.5 | 46 | | |
| 2 1/2" | 63.5×2.0 | 91 | 59 | | |
| 3" | 76.1×2.0 | 106 | 60 | | |
| 4" | 101.6×2.0 | 130 | 61 | | |

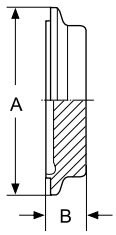
## Concave clamped blind cap




| Size | D | T | A | B | C | kg |
|---|---|---|---|---|---|---|
| 1" | | | 50.5 | 10 | | |
| 1 1/2" | | | 64 | 10 | | |
| 2" | | | 77.5 | 10 | | |
| 2 1/2" | | | 91 | 10 | | |
| 3" | | | 106 | 12 | | |
| 4" | | | 130 | 14 | | |

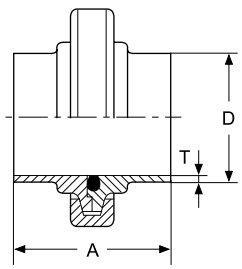
# ISO aseptic clamped ferrule

## Convex clamped blind cap



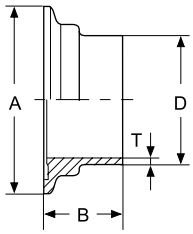

| Size | D | T | A | B | C | kg |
|---|---|---|---|---|---|---|
| 1" | | | 50.5 | 11.5 | | |
| 1 1/2" | | | 64 | 11.5 | | |
| 2" | | | 77.5 | 11.5 | | |
| 2 1/2" | | | 91 | 11.5 | | |
| 3" | | | 106 | 13.5 | | |
| 4" | | | 130 | 15.5 | | |

## Aseptic clamped ferrule assembly(short type)



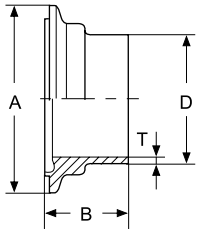

| Size | DxT | A | B | C | kg |
|---|---|---|---|---|---|
| 1" | 25.4×1.5 | 42 | | | |
| 1 1/2" | 38.1×1.5 | 42 | | | |
| 2" | 50.8×1.5 | 42 | | | |
| 2 1/2" | 63.5×2.0 | 54 | | | |
| 3" | 76.1×2.0 | 54 | | | |
| 4" | 101.6×2.0 | 54 | | | |

## Concave clamped ferrule(short type)




| Size | DxT | A | B | C | kg |
|---|---|---|---|---|---|
| 1" | 25.4×1.5 | 50.5 | 22 | | |
| 1 1/2" | 38.1×1.5 | 64 | 22 | | |
| 2" | 50.8×1.5 | 77.5 | 22 | | |
| 2 1/2" | 63.5×2.0 | 91 | 28 | | |
| 3" | 76.1×2.0 | 106 | 28 | | |
| 4" | 101.6×2.0 | 130 | 28 | | |

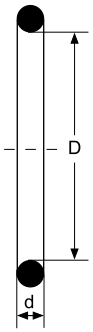
## Convex clamped ferrule(short type)




| Size | DxT | A | B | C | kg |
|---|---|---|---|---|---|
| 1" | 25.4×1.5 | 50.5 | 21.5 | | |
| 1 1/2" | 38.1×1.5 | 64 | 21.5 | | |
| 2" | 50.8×1.5 | 77.5 | 21.5 | | |
| 2 1/2" | 63.5×2.0 | 91 | 27.5 | | |
| 3" | 76.1×2.0 | 106 | 27.5 | | |
| 4" | 101.6×2.0 | 130 | 27.5 | | |

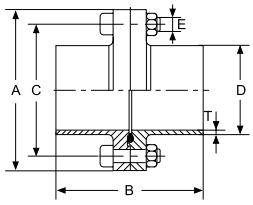
# ISO flange and accessories

## Gasket for flange



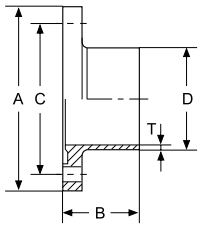

| Size | D | A | B | d | kg |
|---|---|---|---|---|---|
| 1" | 24 | | | 3.5 | |
| 1 1/2" | 37 | | | 5 | |
| 2" | 50 | | | 5 | |
| 2 1/2" | 60 | | | 5 | |
| 3" | 75 | | | 5 | |
| 4" | 100 | | | 5 | |

## Aseptic flange assembly(long type)



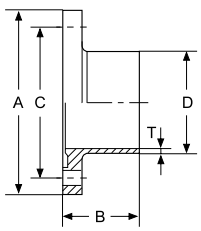

| Size | DxT | A | B | C | E | kg |
|---|---|---|---|---|---|---|
| 1" | 25.4×1.5 | 66 | 80 | 49 | 4×MB | |
| 1 1/2" | 38.1×1.5 | 79 | 90 | 62 | 4×MB | |
| 2" | 50.8×1.5 | 92 | 90 | 75 | 4×MB | |
| 2 1/2" | 63.5×2.0 | 107 | 108 | 89 | 4×MB | |
| 3" | 76.1×2.0 | 125 | 112 | 104 | 4×M10 | |
| 4" | 101.6×2.0 | 157 | 116 | 135 | 4×M10 | |

## Concave buttweld flange(long type)




| Size | DxT | A | B | C | E | kg |
|---|---|---|---|---|---|---|
| 1" | 25.4×1.5 | 66 | 40 | 49 | | |
| 1 1/2" | 38.1×1.5 | 79 | 45 | 62 | | |
| 2" | 50.8×1.5 | 92 | 45 | 75 | | |
| 2 1/2" | 63.5×2.0 | 107 | 54 | 89 | | |
| 3" | 76.1×2.0 | 125 | 56 | 104 | | |
| 4" | 101.6×2.0 | 157 | 58 | 135 | | |

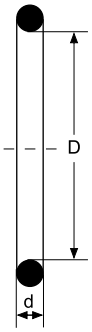
## Convex buttweld flange(long type)




| Size | DxT | A | B | C | E | kg |
|---|---|---|---|---|---|---|
| 1" | 25.4×1.5 | 66 | 41.5 | 49 | | |
| 1 1/2" | 38.1×1.5 | 79 | 46.5 | 62 | | |
| 2" | 50.8×1.5 | 92 | 46.5 | 75 | | |
| 2 1/2" | 63.5×2.0 | 107 | 55.5 | 89 | | |
| 3" | 76.1×2.0 | 125 | 57.5 | 104 | | |
| 4" | 101.6×2.0 | 157 | 59.5 | 135 | | |

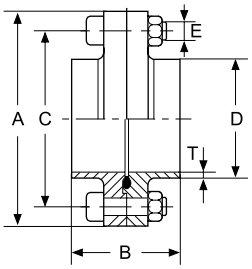
# ISO flange and accessories

## Gasket for flange



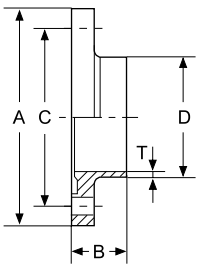

| Size | D | A | B | d | kg |
|---|---|---|---|---|---|
| 1" | 24 | | | 3.5 | |
| 1 1/2" | 37 | | | 5 | |
| 2" | 50 | | | 5 | |
| 2 1/2" | 60 | | | 5 | |
| 3" | 75 | | | 5 | |
| 4" | 100 | | | 5 | |

## Aseptic flange assembly(short type)



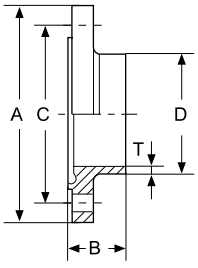

| Size | DxT | A | B | C | E | kg |
|---|---|---|---|---|---|---|
| 1" | 25.4×1.5 | 66 | 48 | 49 | 4×MB | |
| 1 1/2" | 38.1×1.5 | 79 | 48 | 62 | 4×MB | |
| 2" | 50.8×1.5 | 92 | 48 | 75 | 4×MB | |
| 2 1/2" | 63.5×2.0 | 107 | 48 | 89 | 4×MB | |
| 3" | 76.1×2.0 | 125 | 48 | 104 | 4×M10 | |
| 4" | 101.6×2.0 | 157 | 52 | 135 | 4×M10 | |

## Concave buttweld flange(short type)




| Size | DxT | A | B | C | E | kg |
|---|---|---|---|---|---|---|
| 1" | 25.4×1.5 | 66 | 24 | 49 | | |
| 1 1/2" | 38.1×1.5 | 79 | 24 | 62 | | |
| 2" | 50.8×1.5 | 92 | 24 | 75 | | |
| 2 1/2" | 63.5×2.0 | 107 | 24 | 89 | | |
| 3" | 76.1×2.0 | 125 | 24 | 104 | | |
| 4" | 101.6×2.0 | 157 | 26 | 135 | | |

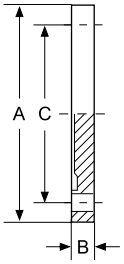
## Convex buttweld flange(short type)




| Size | DxT | A | B | C | E | Kg |
|---|---|---|---|---|---|---|
| 1" | 25.4×1.5 | 66 | 25.5 | 49 | | |
| 1 1/2" | 38.1×1.5 | 79 | 25.5 | 62 | | |
| 2" | 50.8×1.5 | 92 | 25.5 | 75 | | |
| 2 1/2" | 63.5×2.0 | 107 | 25.5 | 89 | | |
| 3" | 76.1×2.0 | 125 | 25.5 | 104 | | |
| 4" | 101.6×2.0 | 157 | 27.5 | 135 | | |

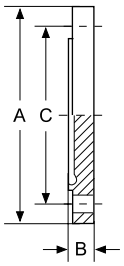
# ISO flange and accessories

## Concave clamped blind cap



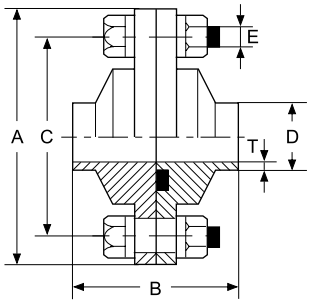

| Size | D | T | A | B | C | E | kg |
|---|---|---|---|---|---|---|---|
| 1" | | | 66 | 10 | 49 | | |
| 1 1/2" | | | 79 | 10 | 62 | | |
| 2" | | | 92 | 10 | 75 | | |
| 2 1/2" | | | 107 | 10 | 89 | | |
| 3" | | | 125 | 12 | 104 | | |
| 4" | | | 157 | 14 | 135 | | |

## Convex clamped blind cap



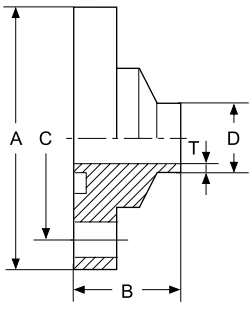

| Size | D | T | A | B | C | E | kg |
|---|---|---|---|---|---|---|---|
| 1" | | | 66 | 11.5 | 49 | | |
| 1 1/2" | | | 79 | 11.5 | 62 | | |
| 2" | | | 92 | 11.5 | 75 | | |
| 2 1/2" | | | 107 | 11.5 | 89 | | |
| 3" | | | 125 | 13.5 | 104 | | |
| 4" | | | 157 | 15.5 | 135 | | |

## Flange assembly




| Size | DxT | A | B | C | E | kg |
|---|---|---|---|---|---|---|
| 1" | 25.4×1.5 | 79 | 50 | 64 | 4×MB | |
| 1 1/2" | 38.1×1.5 | 87 | 50 | 72 | 4×MB | |
| 2" | 50.8×1.5 | 106 | 50 | 90 | 4×MB | |
| 2 1/2" | 63.5×2.0 | 120 | 50 | 102 | 4×MB | |
| 3" | 76.1×2.0 | 134 | 50 | 115 | 4×M10 | |
| 4" | 101.6×2.0 | 166 | 50 | 146 | 4×M10 | |

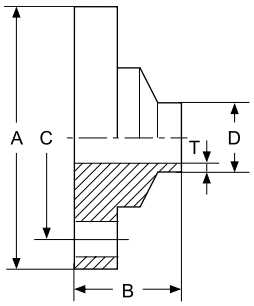
## Concave buttweld flange




| Size | DxT | A | B | C | kg |
|---|---|---|---|---|---|
| 1" | 25.4×1.5 | 79 | 25 | 64 | |
| 1 1/2" | 38.1×1.5 | 87 | 25 | 72 | |
| 2" | 50.8×1.5 | 106 | 25 | 90 | |
| 2 1/2" | 63.5×2.0 | 120 | 25 | 102 | |
| 3" | 76.1×2.0 | 134 | 25 | 115 | |
| 4" | 101.6×2.0 | 166 | 25 | 146 | |

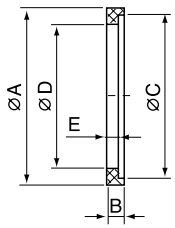
# ISO flange and accessories

## Flat buttweld flange



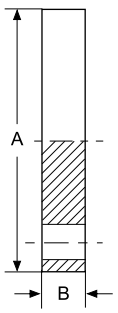

| Size | DxT | A | B | C | kg |
|---|---|---|---|---|---|
| 1" | 25.4×1.5 | 79 | 25 | 64 | |
| 1 1/2" | 38.1×1.5 | 87 | 25 | 72 | |
| 2" | 50.8×1.5 | 106 | 25 | 90 | |
| 2 1/2" | 63.5×2.0 | 120 | 25 | 102 | |
| 3" | 76.1×2.0 | 134 | 25 | 115 | |
| 4" | 101.6×2.0 | 166 | 25 | 146 | |

## ISO gasket for flange




| Size | A | B | C | D | E | kg |
|---|---|---|---|---|---|---|
| 1" | 32 | 5.5 | 25 | 22.9 | 2 | |
| 1 1/4" | 40 | 5.5 | 32 | 29.6 | 2 | |
| 1 1/2" | 48 | 5.5 | 48 | 35.5 | 2 | |
| 2" | 61 | 5.5 | 51 | 48.5 | 2 | |
| 2 1/2" | 73.5 | 5.5 | 63.5 | 60 | 2 | |
| 3" | 86 | 5.5 | 76 | 72.5 | 2 | |
| 4" | 114 | 5.5 | 102 | 97.6 | 2 | |

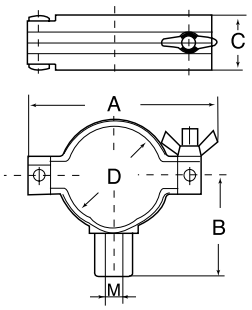
## Blind flange




| Size | DxT | A | B | C | kg |
|---|---|---|---|---|---|
| 1" | | 79 | 10 | | |
| 1 1/2" | | 87 | 10 | | |
| 2" | | 106 | 10 | | |
| 2 1/2" | | 120 | 10 | | |
| 3" | | 134 | 10 | | |
| 4" | | 166 | 10 | | |

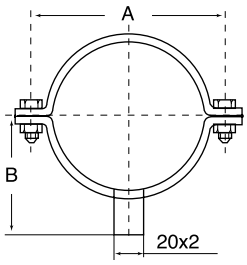
# ISO pipe holder

## Pipe holder(type A)



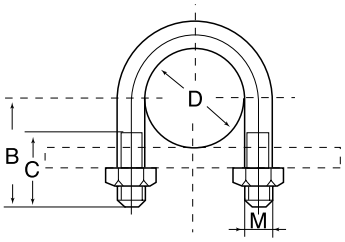

| Size | D | A | B | C | M | kg |
|---|---|---|---|---|---|---|
| 1" | 25.4 | 74 | 37 | 30 | M12 | |
| 1 1/4" | 31.8 | 82 | 40 | 30 | M16 | |
| 1 1/2" | 38.1 | 84 | 46 | 30 | M16 | |
| 2" | 50.8 | 98 | 54 | 30 | M16 | |
| 2 1/2" | 63.5 | 113 | 58 | 30 | M20 | |
| 3" | 76.3 | 128 | 65 | 30 | M20 | |
| 3 1/2" | 89.1 | 140 | 74 | 30 | M20 | |
| 4" | 101.6 | 154 | 78 | 30 | M20 | |

## Pipe holder(type B)



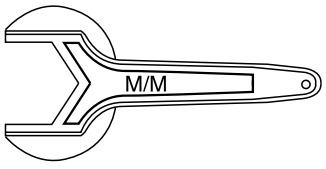

| Size | A | B | kg |
|---|---|---|---|
| 1" | 68 | 34.9 | |
| 1 1/4" | 69 | 37.4 | |
| 1 1/2" | 74 | 41.4 | |
| 2" | 78 | 47.9 | |
| 2 1/2" | 85 | 54.2 | |
| 3" | 91 | 60.5 | |
| 3 1/2" | 98 | 67 | |
| 4" | 104 | 73.4 | |
| 4.5" | 110 | 80 | |
| 5.5" | 123 | 92 | |
| 6.5" | 135 | 105 | |

## U type pipe holder




| Size | D | B | C | M | kg |
|---|---|---|---|---|---|
| DN15 | 19 | 28 | 30 | M6 | |
| DN20 | 25.4 | 30 | 35 | M6 | |
| DN25 | 32 | 35 | 45 | M6 | |
| DN32 | 38 | 38 | 48 | M8 | |
| DN40 | 51 | 40 | 56 | M8 | |
| DN50 | 63.5 | 50 | 75 | M8 | |
| DN65 | 76 | 60 | 90 | M8 | |
| DN80 | 89 | 70 | 100 | M8 | |
| DN90 | 101.6 | 80 | 115 | M8 | |
| DN110 | 114.3 | 85 | 132 | M8 | |

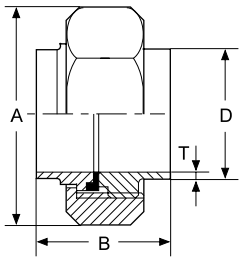
## Spanner




| Size | 表示 | 小 ( small ) | 大 ( large ) | kg |
|---|---|---|---|---|
| 1" | 25MM | — | ○ | |
| 1 1/4" | 32MM | — | ○ | |
| 1 1/2" | 38MM | ○ | ○ | |
| 2" | 50MM | ○ | ○ | |
| 2 1/2" | 64MM | ○ | ○ | |
| 3" | 76MM | ○ | ○ | |
| 3 1/2" | 90MM | — | ○ | |
| 4" | 100MM | ○ | ○ | |

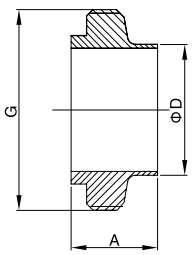
# ISO/IDF union and accessories

## IDF union assembly(long)



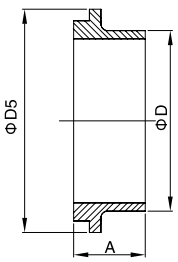

| Size | DxT | A | B | C | kg |
|---|---|---|---|---|---|
| 1" | 25.4×1.5 | 53.1 | 47 | | |
| 1 1/2" | 38.1×1.5 | 69.3 | 47 | | |
| 2" | 50.8×1.5 | 86.6 | 47 | | |
| 2 1/2" | 63.5×2.0 | 103.9 | 47 | | |
| 3" | 76.1×2.0 | 121.3 | 47 | | |
| 4"(ISO) | 102.5x2.0 | 155.9 | 47 | | |
| 4"(IDF) | 101.6×2.0 | 165.1 | 64 | | |

## Male



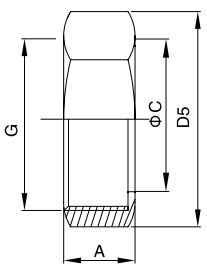

| Size | A | G | D | | kg |
|---|---|---|---|---|---|
| | | | IDF | ISO | |
| 1" | 21.5 | 37.13×8TACME | 25.4 | 25.6 | |
| 1 1/2" | 21.5 | 50.65×8TACME | 38.1 | 38.6 | |
| 2" | 21.5 | 64.16×8TACME | 50.8 | 51.6 | |
| 2 1/2" | 21.5 | 77.67×8TACME | 63.5 | 64.1 | |
| 3" | 21.5 | 91.19×8TACME | 76.2 | 76.7 | |
| 4"(ISO) | 21.5 | 118.4×8TACME | / | 102.5 | |
| 4"(IDF) | 30.0 | 125.9×6TACME | 101.6 | / | |

## Liner




| Size | A | D5 | D | | kg |
|---|---|---|---|---|---|
| | | | IDF | ISO | |
| 1" | 21.5 | 33.8 | 25.4 | 25.6 | |
| 1 1/2" | 21.5 | 47.0 | 38.1 | 38.6 | |
| 2" | 21.5 | 60.5 | 50.8 | 51.6 | |
| 2 1/2" | 21.5 | 74.0 | 63.5 | 64.1 | |
| 3" | 21.5 | 87.5 | 76.2 | 76.7 | |
| 4"(ISO) | 21.5 | 114.1 | / | 102.5 | |
| 4"(IDF) | 30.0 | 120.6 | 101.6 | / | |

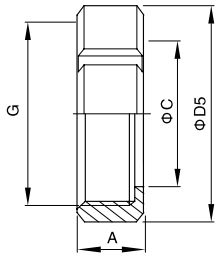
## Hexagon Nut




| Size | A | G | D5 | C | kg |
|---|---|---|---|---|---|
| 1" | 30.0 | 34.34×8TACME | 53.1 | 30.5 | |
| 1 1/2" | 30.0 | 47.86×8TACME | 69.3 | 43.5 | |
| 2" | 30.0 | 61.37×8TACME | 86.6 | 57.0 | |
| 2 1/2" | 30.0 | 74.88×8TACME | 103.9 | 70.7 | |
| 3" | 30.0 | 88.40×8TACME | 121.3 | 83.3 | |
| 4"(ISO) | 30.0 | 119.4×8TACME | 155.9 | 110.0 | |
| 4" (IDF) | 35.0 | 122.05×8TACME | 165.1 | 112.0 | |

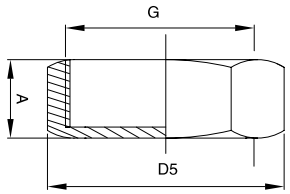
# ISO/IDF union and accessories

## Round Nut



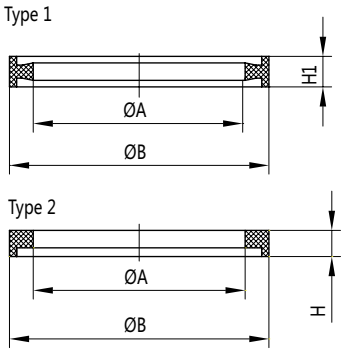

| Size | A | G | D5 | C | kg |
|---|---|---|---|---|---|
| 1" | 30.0 | 34.34×8TACME | 48.0 | 30.5 | |
| 1 1/2" | 30.0 | 47.86×8TACME | 64.0 | 43.5 | |
| 2" | 30.0 | 61.37×8TACME | 77.0 | 57.0 | |
| 2 1/2" | 30.0 | 74.97×8TACME | 91.0 | 70.7 | |
| 3" | 30.0 | 88.40×8TACME | 104.0 | 83.3 | |
| 4"(ISO) | 30.0 | 119.4×8TACME | 135.0 | 110.0 | |
| 4"(IDF) | 35.0 | 115.41×8TACME | 138.0 | 112.0 | |

## Blind nut



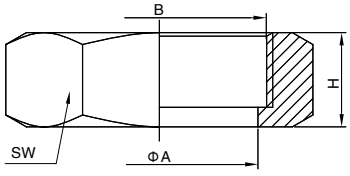

| Size | A | G | D5 | kg |
|---|---|---|---|---|
| 1" | 30.0 | 38.3×8TACME | 53.1 | |
| 1 1/2" | 30.0 | 51.8×8TACME | 69.3 | |
| 2" | 30.0 | 65.3×8TACME | 86.6 | |
| 2 1/2" | 30.0 | 78.8×8TACME | 103.9 | |
| 3" | 30.0 | 92.3×8TACME | 121.3 | |
| 4"(ISO) | 30.0 | 119.4×8TACME | 155.9 | |
| 4"(IDF) | 35.0 | 127.2×6TACME | 165.1 | |

## Gasket for union




| Size | A | B | C | H1 | H | kg |
|---|---|---|---|---|---|---|
| 1" | 23.2 | 32.5 | 32.2 | 7 | 6 | |
| 1 1/2" | 35.9 | 46 | 45.7 | 7 | 6 | |
| 2" | 48.6 | 59.5 | 59.2 | 7 | 6 | |
| 2 1/2" | 61.3 | 73.2 | 72.9 | 7 | 6 | |
| 3" | 74 | 86.5 | 85.6 | 7 | 6 | |
| 4" | 98.6 | 119 | 118 | 9.6 | 6 | |

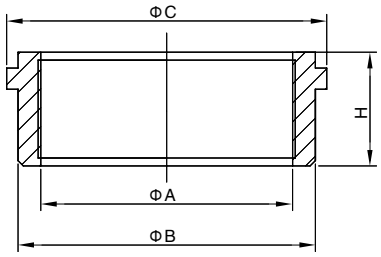
## Hexagonal nut




| Size | A | B | H | SW | kg |
|---|---|---|---|---|---|
| 1.0" | 30.5 | 34.34×8TPI ACME | 30 | 46 | |
| 1 1/2" | 43.5 | 47.86×8TPI ACME | 30 | 60 | |
| 2.0" | 57.0 | 61.37×8TPI ACME | 30 | 75 | |
| 2 1/2" | 70.7 | 74.88×8TPI ACME | 30 | 90 | |
| 3.0" | 83.3 | 88.40×8TPI ACME | 30 | 105 | |
| 4.0" | 112 | 122.05×6TPI ACME | 35 | 133 | |

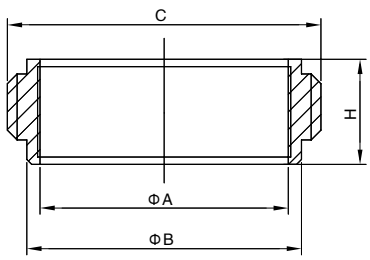
# ISO/IDF union and accessories

## Expanded liner



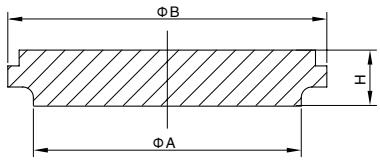

| Size | A | B | C | H | kg |
|---|---|---|---|---|---|
| 1.0" | 25.7 | 29 | 33.8 | 20 | |
| 1 1/2" | 38.4 | 42.5 | 47 | 20 | |
| 2.0" | 51.2 | 56 | 60.5 | 25 | |
| 2 1/2" | 63.9 | 69.7 | 74 | 30 | |
| 3.0" | 76.6 | 82.3 | 87.5 | 30 | |
| 4.0" | 102 | 111.1 | 120.6 | 30 | |

## Expanded male



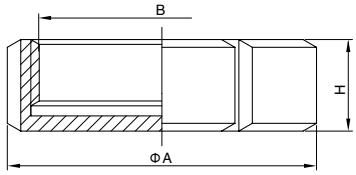

| Size | A | B | C | H | kg |
|---|---|---|---|---|---|
| 1.0" | 25.7 | 29 | 37.13×8TPI ACME | 16.5 | |
| 1 1/2" | 38.4 | 42.5 | 50.65×8TPI ACME | 19.5 | |
| 2.0" | 51.2 | 56 | 64.16×8TPI ACME | 19.5 | |
| 2 1/2" | 63.9 | 69.7 | 77.67×8TPI ACME | 25 | |
| 3.0" | 76.6 | 82.3 | 91.19×8TPI ACME | 30 | |
| 4.0" | 102 | 111.1 | 125.9×6TPI ACME | 35 | |

## Blind liner




| Size | A | B | H | kg |
|---|---|---|---|---|
| 1.0" | 29 | 33.8 | 10.5 | |
| 1 1/2" | 42.5 | 47 | 10.5 | |
| 2.0" | 56 | 60.5 | 10.5 | |
| 2 1/2" | 69.7 | 74 | 10.5 | |
| 3.0" | 82.3 | 87.5 | 10.5 | |
| 4.0" | 111.1 | 120.6 | 10.5 | |

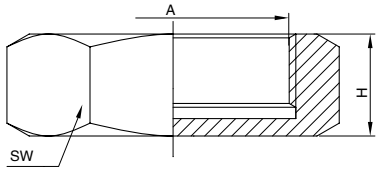
## Blind nut




| Size | A | B | H | kg |
|---|---|---|---|---|
| 1.0" | 44.5 | 34.34×8TPI ACME | 30 | |
| 1 1/2" | 57.2 | 47.86×8TPI ACME | 30 | |
| 2.0" | 71 | 61.37×8TPI ACME | 30 | |
| 2 1/2" | 86 | 74.88×8TPI ACME | 30 | |
| 3.0" | 102 | 88.04×8TPI ACME | 30 | |
| 4.0" | 133 | 122.05×6TPI ACME | 35 | |

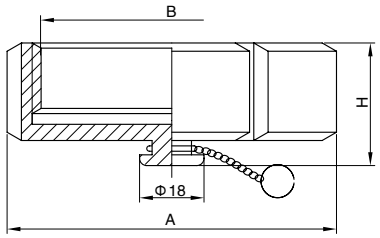
# ISO/IDF union and accessories

## Hexagonal blind nut



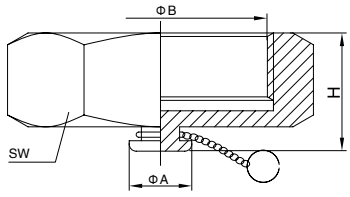

| Size | A | B | H | kg |
|---|---|---|---|---|
| 1.0" | 34.34×8TPI ACME | 30 | 46 | |
| 1 1/2" | 47.86×8TPI ACME | 30 | 60 | |
| 2.0" | 61.37×8TPI ACME | 30 | 75 | |
| 2 1/2" | 74.88×8TPI ACME | 30 | 90 | |
| 3.0" | 88.04×8TPI ACME | 30 | 105 | |
| 4.0" | 122.05×6TPI ACME | 35 | 133 | |

## Blind nut with locking ring



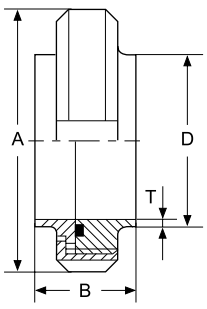

| Size | A | B | H | kg |
|---|---|---|---|---|
| 1.0" | 44.5 | 34.34×8TPI ACME | 37 | |
| 1 1/2" | 57.2 | 47.86×8TPI ACME | 37 | |
| 2.0" | 70 | 61.37×8TPI ACME | 37 | |
| 2 1/2" | 86 | 74.88×8TPI ACME | 37 | |
| 3.0" | 102 | 88.04×8TPI ACME | 37 | |
| 4.0" | 133 | 122.05×6TPI ACME | 42 | |

## Hexagonal blind nut with locking ring




| Size | A | B | SW | kg |
|---|---|---|---|---|
| 1.0" | 34.34×8TPI ACME | 37 | 46 | |
| 1 1/2" | 47.86×8TPI ACME | 37 | 60 | |
| 2.0" | 61.37×8TPI ACME | 37 | 75 | |
| 2 1/2" | 74.88×8TPI ACME | 37 | 90 | |
| 3.0" | 88.04×8TPI ACME | 37 | 105 | |
| 4.0" | 122.05×6TPI ACME | 42 | 133 | |

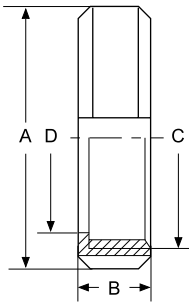
## Union assembly(ISO/SMS)




| Size | DxT | A | B | C | kg |
|---|---|---|---|---|---|
| 1" | 25.4×1.5 | 51 | 32 | | |
| 1 1/4" | 31.8×1.5 | 60 | 34 | | |
| 1 1/2" | 38.1×1.5 | 72 | 34 | | |
| 2" | 50.8×1.5 | 82 | 35 | | |
| 2 1/2" | 63.5×2.0 | 98 | 37 | | |
| 3" | 76.1×2.0 | 113 | 39 | | |
| 3 1/2" | 88.9×2.0 | 125 | 42 | | |
| 4" 大 | 101.6×2.0 | 150 | 46 | | |
| 4" 小 | 104x2.0 | 138 | 45 | | |

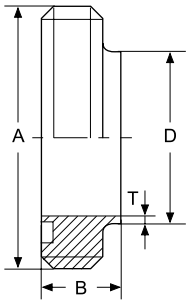
# ISO/SMS union and accessories

## Round Nut



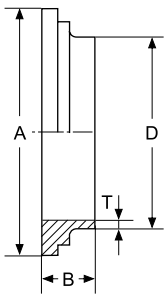

| Size | DxT | A | B | C | kg |
|---|---|---|---|---|---|
| 1" | 30.5 | 51 | 19 | Rd40×1/6" | |
| 1 1/4" | 37 | 60 | 21 | Rd48×1/6" | |
| 1 1/2" | 48.5 | 72 | 21 | Rd60×1/6" | |
| 2" | 58.5 | 82 | 22 | Rd70×1/6" | |
| 2 1/2" | 73.5 | 98 | 24 | Rd85×1/6" | |
| 3" | 86 | 113 | 26 | Rd98×1/6" | |
| 3 1/2" | 98.5 | 125 | 28 | Rd110×1/6" | |
| 4" 大 | 118 | 150 | 30 | Rd132×1/6" | |
| 4" 小 | 113 | 138 | 28 | Rd125×1/6" | |

## Male




| Size | DxT | A | B | C | kg |
|---|---|---|---|---|---|
| 1" | 25.4×1.5 | Rd40×1/6" | 18 | | |
| 1 1/4" | 31.8×1.5 | Rd48×1/6" | 20 | | |
| 1 1/2" | 38.1×1.5 | Rd60×1/6" | 20 | | |
| 2" | 50.8×1.5 | Rd70×1/6" | 21 | | |
| 2 1/2" | 63.5×2.0 | Rd85×1/6" | 22 | | |
| 3" | 76.1×2.0 | Rd98×1/6" | 24 | | |
| 3 1/2" | 88.9×2.0 | Rd110×1/6" | 26 | | |
| 4" 大 | 101.6×2.0 | Rd132×1/6" | 28 | | |
| 4" 小 | 104x2.0 | Rd125×1/6" | 27 | | |

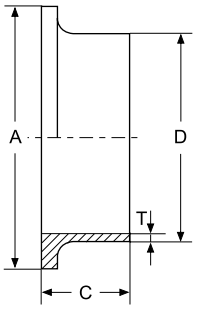
## Step type liner(short type)




| Size | DxT | A | B | C | kg |
|---|---|---|---|---|---|
| 1" | 25.4×1.5 | 35.7 | 13 | | |
| 1 1/4" | 31.8×1.5 | 43.7 | 13 | | |
| 1 1/2" | 38.1×1.5 | 55.7 | 13 | | |
| 2" | 50.8×1.5 | 65.7 | 13 | | |
| 2 1/2" | 63.5×2.0 | 80.7 | 14 | | |
| 3" | 76.1×2.0 | 93.5 | 14 | | |
| 3 1/2" | 88.9×2.0 | 105.5 | 15 | | |
| 4" 大 | 101.6×2.0 | 127.5 | 17 | | |
| 4" 小 | 104x2.0 | 120.5 | 17 | | |

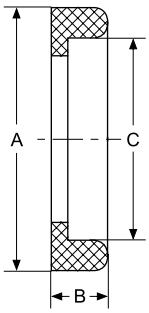
# ISO/SMS union and accessories

## Arc type liner(long type



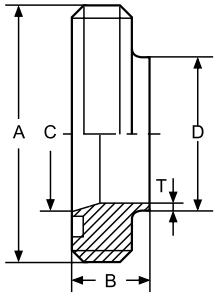

| Size | DxT | A | B | C | kg |
|---|---|---|---|---|---|
| 1" | 25.4×1.5 | 35.7 | | 12 | |
| 1 1/4" | 31.8×1.5 | 43.7 | | 12 | |
| 1 1/2" | 38.1×1.5 | 55.7 | | 12 | |
| 2" | 50.8×1.5 | 65.7 | | 12 | |
| 2 1/2" | 63.5×2.0 | 80.7 | | 13 | |
| 3" | 76.1×2.0 | 93.5 | | 13 | |
| 3 1/2" | 88.9×2.0 | 105.5 | | 13 | |
| 4" 大 | 101.6×2.0 | 127.5 | | 15 | |
| 4" 小 | 104x2.0 | 120.5 | | 15 | |

## Gasket for union




| Size | DxT | A | B | C | kg |
|---|---|---|---|---|---|
| 1" | | 32 | 5.5 | 22.7 | |
| 1 1/4" | | 40 | 5.5 | 29.5 | |
| 1 1/2" | | 48 | 5.5 | 35.5 | |
| 2" | | 61 | 5.5 | 45.5 | |
| 2 1/2" | | 73.5 | 5.5 | 60.5 | |
| 3" | | 86 | 5.5 | 72.3 | |
| 3 1/2" | | 100 | 5.5 | 86 | |
| 4" | | 114 | 5.5 | 97.8 | |

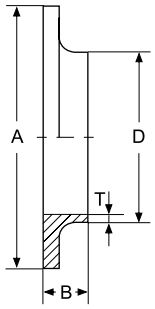
## Reducing male




| Size | DxT | A | B | C | kg |
|---|---|---|---|---|---|
| 1 1/2"/1" | 25.4×1.5 | Rd60×1/6" | 20.0 | 35.1 | |
| 2"/1" | 25.4×1.5 | Rd70×1/6" | 20.0 | 47.8 | |
| 2"/1 1/2" | 38.1×1.5 | Rd70×1/6" | 20.0 | 47.8 | |
| 2 1/2"/1 1/2" | 38.1×1.5 | Rd85×1/6" | 24.0 | 59.5 | |
| 2 1/2"/2" | 50.8×1.5 | Rd85×1/6" | 24.0 | 59.5 | |
| 3"/2" | 50.8×1.5 | Rd98×1/6" | 24.0 | 72.1 | |
| 3"/2 1/2" | 63.5×2.0 | Rd98×1/6" | 24.0 | 72.1 | |
| 4"/2 1/2" | 63.5×2.0 | Rd132×1/6" | 35.0 | 97.6 | |
| 4"/3" | 76.1×2.0 | Rd132×1/6" | 35.0 | 97.6 | |

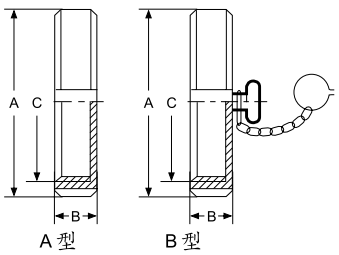
# ISO/SMS union and accessories

## Reducing liner



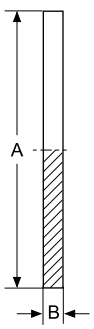

| Size | DxT | A | B | C | kg |
|---|---|---|---|---|---|
| 1 1/2"/1" | 25.4×1.5 | 55.7 | 9 | | |
| 2"/1" | 25.4×1.5 | 65.7 | 9 | | |
| 2"/1 1/2" | 38.1×1.5 | 65.7 | 9 | | |
| 2 1/2"/1 1/2" | 38.1×1.5 | 80.7 | 9 | | |
| 2 1/2"/2" | 50.8×1.5 | 80.7 | 9 | | |
| 3"/2" | 50.8×1.5 | 93.5 | 10 | | |
| 3"/2 1/2" | 63.5×2.0 | 93.5 | 10 | | |
| 4"/2 1/2" | 63.5×2.0 | 127.5 | 15 | | |
| 4"/3" | 76.1×2.0 | 127.5 | 15 | | |

## Blind nut




| Size | DxT | A | B | C | kg |
|---|---|---|---|---|---|
| 1" | | 51 | 19 | Rd40×1/6$^{s}$ | |
| 1 1/4" | | 60 | 21 | Rd48×1/6$^{s}$ | |
| 1 1/2" | | 72 | 21 | Rd60×1/6$^{s}$ | |
| 2" | | 82 | 22 | Rd70×1/6$^{s}$ | |
| 2 1/2" | | 98 | 24 | Rd85×1/6$^{s}$ | |
| 3" | | 113 | 26 | Rd98×1/6$^{s}$ | |
| 3 1/2" | | 125 | 28 | Rd110×1/6$^{s}$ | |
| 4" | | 150 | 28 | Rd132×1/6$^{s}$ | |
| 4" 小 | | 138 | 30 | Rd125×1/6$^{s}$ | |

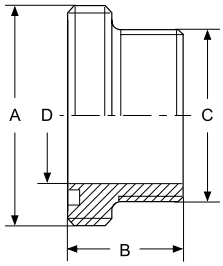
## Blind cap for union




| Size | DxT | A | B | C | kg |
|---|---|---|---|---|---|
| 1" | | 35.7 | 3.5 | | |
| 1 1/4" | | 43.7 | 3.5 | | |
| 1 1/2" | | 55.7 | 4 | | |
| 2" | | 65.7 | 4 | | |
| 2 1/2" | | 80.7 | 4 | | |
| 3" | | 93.5 | 4.5 | | |
| 3 1/2" | | 105.5 | 4.5 | | |
| 4" | | 127.5 | 5 | | |

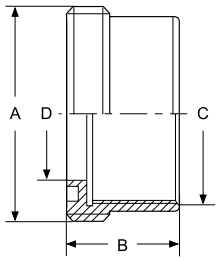
# ISO/SMS union and accessories

## Male type adapter



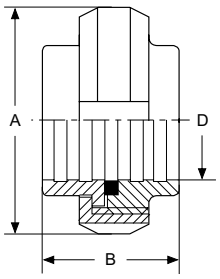

| Size | D | T | A | B | C | kg |
|---|---|---|---|---|---|---|
| 1" | 22.4 | | Rd40×1/6" | 30 | R1" | |
| 1 1/2" | 35.1 | | Rd60×1/6" | 42 | R1 1/2" | |
| 2" | 47.8 | | Rd70×1/6" | 47 | R2" | |
| 2 1/2" | 59.5 | | Rd85×1/6" | 55 | R2 1/2" | |
| 3" | 72.1 | | Rd98×1/6" | 58 | R3" | |

## Female type adapter



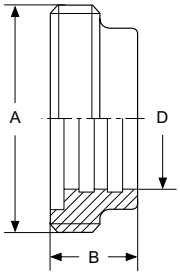

| Size | D | T | A | B | C | kg |
|---|---|---|---|---|---|---|
| 1" | 22.4 | | Rd40×1/6" | 23 | R1" | |
| 1 1/2" | 35.1 | | Rd60×1/6" | 32 | R1 1/2" | |
| 2" | 47.8 | | Rd70×1/6" | 38 | R2" | |
| 2 1/2" | 59.5 | | Rd85×1/6" | 42 | R2 1/2" | |
| 3" | 72.1 | | Rd98×1/6" | 45 | R3" | |

## SMS expanded union assembly




| Size | D | A | B | C | kg |
|---|---|---|---|---|---|
| 1" | 25.6 | 51 | 38 | | |
| 1 1/2" | 38.3 | 72 | 44 | | |
| 2" | 51.2 | 82 | 46 | | |
| 2 1/2" | 63.8 | 98 | 56 | | |
| 3" | 76.3 | 113 | 66 | | |
| 4" | 102 | 138 | 86 | | |

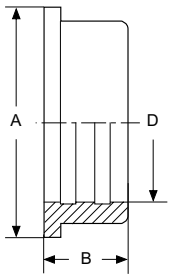
## Expanded male




| Size | D | A | B | C | kg |
|---|---|---|---|---|---|
| 1" | 25.6 | Rd40×1/6" | 20 | | |
| 1 1/2" | 38.3 | Rd60×1/6" | 23 | | |
| 2" | 51.2 | Rd70×1/6" | 25 | | |
| 2 1/2" | 63.8 | Rd85×1/6" | 30 | | |
| 3" | 76.3 | Rd98×1/6" | 35 | | |
| 4" | 102 | Rd132×1/6" | 45 | | |

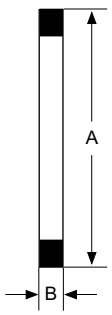
# ISO/DIN union and accessories

## Expanded liner



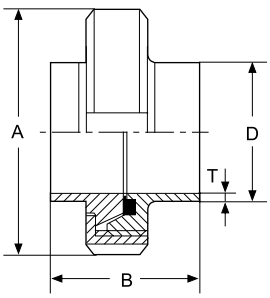

| Size | D | A | B | C | kg |
|---|---|---|---|---|---|
| 1" | 25.6 | 35.5 | 17 | | |
| 1 1/2" | 38.3 | 55 | 20 | | |
| 2" | 51.2 | 65 | 20 | | |
| 2 1/2" | 63.8 | 80 | 25 | | |
| 3" | 76.3 | 93 | 30 | | |
| 4" | 102 | 127 | 40 | | |

## Gasket for union



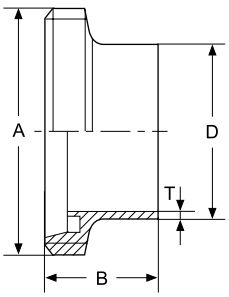

| Size | DxT | A | B | C | kg |
|---|---|---|---|---|---|
| 1" | | 32 | 5.5 | | |
| 1 1/2" | | 48 | 5.5 | | |
| 2" | | 61 | 5.5 | | |
| 2 1/2" | | 73.5 | 5.5 | | |
| 3" | | 86 | 5.5 | | |
| 4" | | 114 | 5.5 | | |

## DIN/ISO union assembly(long type)




| Size | DxT | A | B | C | kg |
|---|---|---|---|---|---|
| DN25/1" | 25.4×1.5 | 63 | 45 | | |
| DN32/1 1/4" | 31.8×1.5 | 70 | 51 | | |
| DN40/1 1/2" | 38.1×1.5 | 78 | 53 | | |
| DN50/2" | 50.8×1.5 | 92 | 57 | | |
| DN65/2 1/2" | 63.5×2.0 | 112 | 65 | | |
| DN80/3" | 76.1×2.0 | 127 | 75 | | |
| DN100/4" | 101.6×2.0 | 148 | 89 | | |

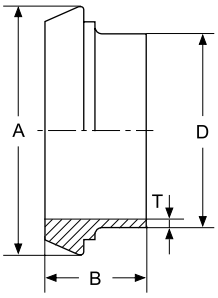
## Male




| Size | DxT | A | B | C | kg |
|---|---|---|---|---|---|
| DN25/1" | 25.4×1.5 | Rd52×1/6" | 29 | | |
| DN32/1 1/4" | 31.8×1.5 | Rd58×1/6" | 32 | | |
| DN40/1 1/2" | 38.1×1.5 | Rd65×1/6" | 33 | | |
| DN50/2" | 50.8×1.5 | Rd78×1/6" | 35 | | |
| DN65/2 1/2" | 63.5×2.0 | Rd95×1/6" | 40 | | |
| DN80/3" | 76.1×2.0 | Rd110×1/6" | 45 | | |
| DN100/4" | 101.6×2.0 | Rd130×1/6" | 54 | | |

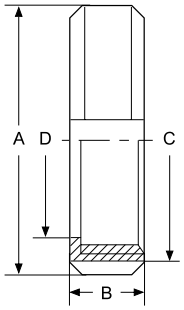
# ISO/DIN union and accessories

## Taper type liner



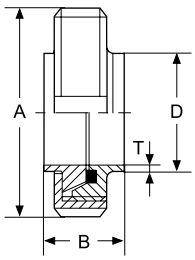

| Size | DxT | A | B | C | kg |
|---|---|---|---|---|---|
| DN25/1" | 25.4×1.5 | 44 | 22 | | |
| DN32/1 1/4" | 31.8×1.5 | 50 | 25 | | |
| DN40/1 1/2" | 38.1×1.5 | 56 | 26 | | |
| DN50/2" | 50.8×1.5 | 68.5 | 28 | | |
| DN65/2 1/2" | 63.5×2.0 | 86 | 32 | | |
| DN80/3" | 76.1×2.0 | 100 | 37 | | |
| DN100/4" | 101.6×2.0 | 121 | 44 | | |

## Round nut



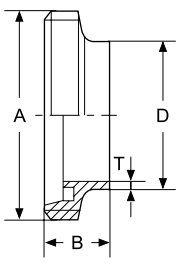

| Size | D | A | B | C | kg |
|---|---|---|---|---|---|
| DN25/1" | 36 | 63 | 21 | Rd52×1/6" | |
| DN32/1 1/4" | 42 | 70 | 21 | Rd58×1/6" | |
| DN40/1 1/2" | 49 | 78 | 21 | Rd65×1/6" | |
| DN50/2" | 62 | 92 | 22 | Rd78×1/6" | |
| DN65/2 1/2" | 80 | 112 | 25 | Rd95×1/6" | |
| DN80/3" | 94 | 127 | 29 | Rd110×1/6" | |
| DN100/4" | 115 | 148 | 31 | Rd130×1/6" | |

## DIN/ISO union assembly(short type)




| Size | DxT | A | B | C | kg |
|---|---|---|---|---|---|
| DN25/1" | 25.4×1.5 | 63 | 30 | | |
| DN32/1 1/4" | 31.8×1.5 | 70 | 30 | | |
| DN40/1 1/2" | 38.1×1.5 | 78 | 33 | | |
| DN50/2" | 50.8×1.5 | 92 | 36 | | |
| DN65/2 1/2" | 63.5×2.0 | 112 | 37 | | |
| DN80/3" | 76.1×2.0 | 127 | 42 | | |
| DN100/4" | 101.6×2.0 | 148 | 43 | | |

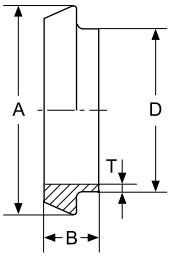
## Male




| Size | DxT | A | B | C | kg |
|---|---|---|---|---|---|
| DN25/1" | 25.4×1.5 | Rd52×1/6" | 22 | | |
| DN32/1 1/4" | 31.8×1.5 | Rd58×1/6" | 22 | | |
| DN40/1 1/2" | 38.1×1.5 | Rd65×1/6" | 22 | | |
| DN50/2" | 50.8×1.5 | Rd78×1/6" | 23 | | |
| DN65/2 1/2" | 63.5×2.0 | Rd95×1/6" | 25 | | |
| DN80/3" | 76.1×2.0 | Rd110×1/6" | 30 | | |
| DN100/4" | 101.6×2.0 | Rd130×1/6" | 30 | | |

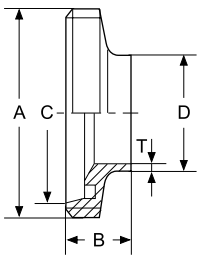
# ISO/DIN union and accessories

## Taper type liner



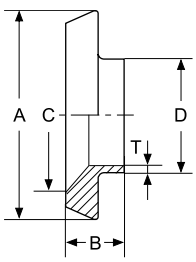

| Size | DxT | A | B | C | kg |
|---|---|---|---|---|---|
| DN25/1" | 25.4×1.5 | 44 | 15 | | |
| DN32/1 1/4" | 31.8×1.5 | 50 | 15 | | |
| DN40/1 1/2" | 38.1×1.5 | 56 | 18 | | |
| DN50/2" | 50.8×1.5 | 68.5 | 20 | | |
| DN65/2 1/2" | 63.5×2.0 | 86 | 20 | | |
| DN80/3" | 76.1×2.0 | 100 | 20 | | |
| DN100/4" | 101.6×2.0 | 121 | 23 | | |

## Reducing male




| Size | DxT | A | B | C | kg |
|---|---|---|---|---|---|
| DN25/1" | 25.4×1.5 | Rd58×1/6" | 22 | 31 | |
| DN32/1 1/4" | 31.8×1.5 | Rd65×1/6" | 22 | 37 | |
| DN40/1 1/2" | 38.1×1.5 | Rd78×1/6" | 22 | 49 | |
| DN50/2" | 50.8×1.5 | Rd95×1/6" | 27 | 66 | |
| DN65/2 1/2" | 63.5×2.0 | Rd110×1/6" | 32 | 81 | |
| DN80/3" | 76.1×2.0 | Rd130×1/6" | 33 | 100 | |

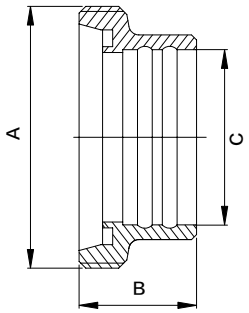
## Reducing taper type liner




| Size | DxT | A | B | C | kg |
|---|---|---|---|---|---|
| DN25/1" | 25.4×1.5 | 50 | 18 | 31 | |
| DN32/1 1/4" | 31.8×1.5 | 56 | 18 | 37 | |
| DN40/1 1/2" | 38.1×1.5 | 68.5 | 20 | 49 | |
| DN50/2" | 50.8×1.5 | 86 | 20 | 66 | |
| DN65/2 1/2" | 63.5×2.0 | 100 | 20 | 81 | |
| DN80/3" | 76.1×2.0 | 121 | 23 | 100 | |

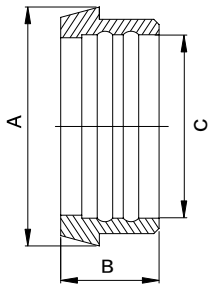
# ISO/DIN union and accessories

## Expanded male



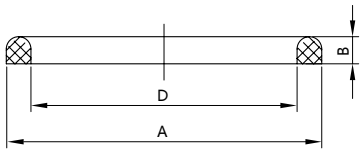

| Size | A | B | C | kg |
|---|---|---|---|---|
| DN25/1" | 52x1/6 | 29 | 25.6 | |
| DN32/1 1/4" | 58x1/6 | 32 | 32.2 | |
| DN40/1 1/2" | 65x1/6 | 33 | 38.3 | |
| DN50/2" | 78x1/6 | 35 | 51.2 | |
| DN65/2 1/2" | 95x1/6 | 40 | 63.8 | |
| DN80/3" | 110x1/4 | 45 | 76.4 | |
| DN100/4" | 130x1/4 | 54 | 101.9 | |

## Expanded liner



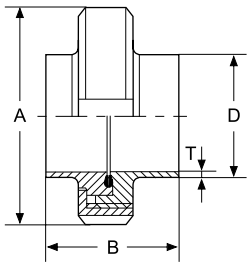

| Size | A | B | C | kg |
|---|---|---|---|---|
| DN25/1" | 44 | 22 | 25.6 | |
| DN32/1 1/4" | 50 | 25 | 32.2 | |
| DN40/1 1/2" | 56 | 26 | 38.3 | |
| DN50/2" | 68 | 28 | 51.2 | |
| DN65/2 1/2" | 86 | 32 | 63.8 | |
| DN80/3" | 100 | 37 | 76.4 | |
| DN100/4" | 121 | 44 | 101.9 | |

## Gasket for union




| Size | A | D | B | kg |
|---|---|---|---|---|
| DN25 | 40 | 30 | 5 | |
| DN32 | 46 | 36 | 5 | |
| DN40 | 52 | 42 | 5 | |
| DN50 | 64 | 64 | 5 | |
| DN65 | 81 | 71 | 5 | |
| DN80 | 85 | 85 | 5 | |
| DN100 | 114 | 104 | 6 | |

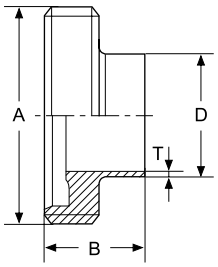
## Aseptic union assembly(short type)




| Size | DxT | A | B | C | kg |
|---|---|---|---|---|---|
| 1" | 25.4×1.5 | 51 | 42 | | |
| 1 1/2" | 38.1×1.5 | 73 | 50 | | |
| 2" | 50.8×1.5 | 83 | 54 | | |
| 2 1/2" | 63.5×2.0 | 98 | 62 | | |
| 3" | 76.1×2.0 | 114 | 72 | | |
| 4" | 101.6×2.0 | 154 | 86 | | |

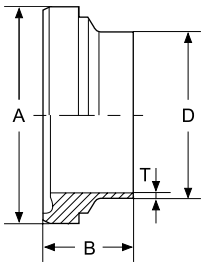
# ISO/DIN union and accessories

## Male(short type)



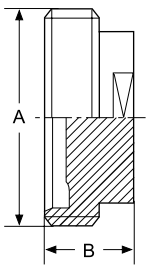

| Size | DxT | A | B | C | kg |
|---|---|---|---|---|---|
| 1" | 25.4×1.5 | Rd52×1/6" | 26 | | |
| 1 1/2" | 38.1×1.5 | Rd65×1/6" | 31 | | |
| 2" | 50.8×1.5 | Rd78×1/6" | 31 | | |
| 2 1/2" | 63.5×2.0 | Rd95×1/6" | 36 | | |
| 3" | 76.1×2.0 | Rd110×1/4" | 42 | | |
| 4" | 101.6×2.0 | Rd130×1/4" | 50 | | |

## Liner(short type)



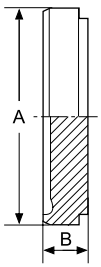

| Size | DxT | A | B | C | kg |
|---|---|---|---|---|---|
| 1" | 25.4×1.5 | 42.9 | 22 | | |
| 1 1/2" | 38.1×1.5 | 54.9 | 26 | | |
| 2" | 50.8×1.5 | 66.9 | 30 | | |
| 2 1/2" | 63.5×2.0 | 84.9 | 34 | | |
| 3" | 76.1×2.0 | 98.9 | 38 | | |
| 4" | 101.6×2.0 | 118.9 | 46 | | |

## Male type blind cap




| Size | DxT | A | B | C | kg |
|---|---|---|---|---|---|
| 1" | | Rd52×1/6" | 24 | | |
| 1 1/2" | | Rd65×1/6" | 24 | | |
| 2" | | Rd78×1/6" | 24 | | |
| 2 1/2" | | Rd95×1/6" | 28 | | |
| 3" | | Rd110×1/4" | 28 | | |
| 4" | | Rd130×1/4" | 30 | | |

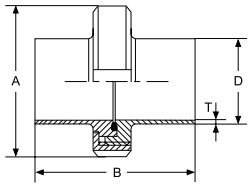
## Liner type blind cap




| Size | DxT | A | B | C | kg |
|---|---|---|---|---|---|
| 1" | | 42.9 | 12 | | |
| 1 1/2" | | 54.9 | 13 | | |
| 2" | | 66.9 | 14 | | |
| 2 1/2" | | 84.9 | 15 | | |
| 3" | | 98.9 | 16 | | |
| 4" | | 118.9 | 20 | | |

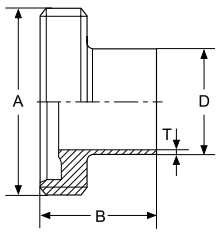
# ISO/DIN union and accessories

## Aseptic union assembly(long type)



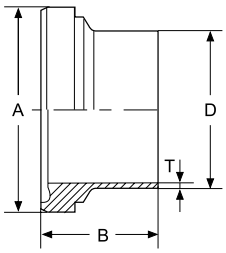

| Size | DxT | A | B | C | kg |
|---|---|---|---|---|---|
| 1" | 25.4×1.5 | 51 | 77 | | |
| 1 1/2" | 38.1×1.5 | 73 | 88 | | |
| 2" | 50.8×1.5 | 83 | 89 | | |
| 2 1/2" | 63.5×2.0 | 98 | 115 | | |
| 3" | 76.1×2.0 | 114 | 117 | | |
| 4" | 101.6×2.0 | 154 | 119 | | |

## Male(long type)



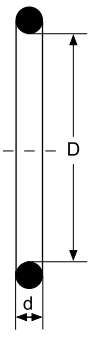

| Size | DxT | A | B | C | kg |
|---|---|---|---|---|---|
| 1" | 25.4×1.5 | Rd52×1/6" | 43 | | |
| 1 1/2" | 38.1×1.5 | Rd65×1/6" | 48.5 | | |
| 2" | 50.8×1.5 | Rd78×1/6" | 48.5 | | |
| 2 1/2" | 63.5×2.0 | Rd95×1/6" | 60 | | |
| 3" | 76.1×2.0 | Rd110×1/4" | 64 | | |
| 4" | 101.6×2.0 | Rd130×1/4" | 64 | | |

## Liner(long type)




| Size | DxT | A | B | C | kg |
|---|---|---|---|---|---|
| 1" | 25.4×1.5 | 42.9 | 40 | | |
| 1 1/2" | 38.1×1.5 | 54.9 | 46.5 | | |
| 2" | 50.8×1.5 | 66.9 | 47.5 | | |
| 2 1/2" | 63.5×2.0 | 84.9 | 63 | | |
| 3" | 76.1×2.0 | 98.9 | 61 | | |
| 4" | 101.6×2.0 | 118.9 | 65 | | |

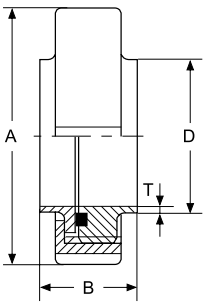
## Gasket for union




| Size | D | A | B | d | kg |
|---|---|---|---|---|---|
| 1" | 24 | | | 3.5 | |
| 1 1/2" | 37 | | | 5 | |
| 2" | 50 | | | 5 | |
| 2 1/2" | 60 | | | 5 | |
| 3" | 75 | | | 5 | |
| 4" | 100 | | | 5 | |

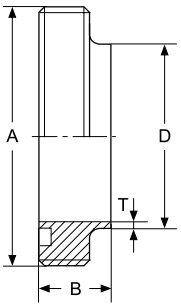
# ISO/DS union and accessories

## DSunion assembly



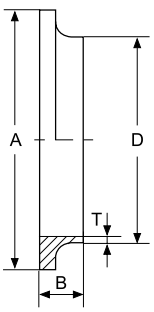

| Size | DxT | A | B | C | kg |
|---|---|---|---|---|---|
| 1" | 25.4×1.45 | 57 | 30 | | |
| 1 1/2" | 38.4×1.45 | 71 | 31.5 | | |
| 2" | 51.4×1.45 | 86 | 31.5 | | |
| 2 1/2" | 63.9×1.7 | 103 | 36.5 | | |
| 3" | 76.4×2.2 | 115 | 36.5 | | |
| 4" | 102×2.2 | 150 | 36.5 | | |

## Male



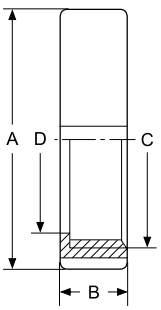

| Size | DxT | A | B | C | kg |
|---|---|---|---|---|---|
| 1" | 25.4×1.45 | Rd44×1/6" | 18.5 | | |
| 1 1/2" | 38.4×1.45 | Rd58×1/6" | 20 | | |
| 2" | 51.4×1.45 | Rd72×1/6" | 20 | | |
| 2 1/2" | 63.9×1.7 | Rd88×1/6" | 24 | | |
| 3" | 76.4×2.2 | Rd100×1/6" | 24 | | |
| 4" | 102×2.2 | Rd130×1/6" | 24 | | |

## Liner




| Size | DxT | A | B | C | kg |
|---|---|---|---|---|---|
| 1" | 25.4×1.45 | 40 | 11 | | |
| 1 1/2" | 38.4×1.45 | 54 | 11 | | |
| 2" | 51.4×1.45 | 68 | 11 | | |
| 2 1/2" | 63.9×1.7 | 84 | 12 | | |
| 3" | 76.4×2.2 | 96 | 12 | | |
| 4" | 102×2.2 | 124 | 12 | | |

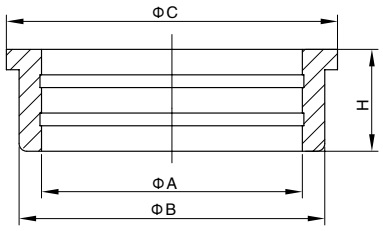
## Round nut




| Size | DxT | A | B | C | kg |
|---|---|---|---|---|---|
| 1" | 35 | 57 | 20 | Rd44×1/6" | |
| 1 1/2" | 48.5 | 71 | 20 | Rd58×1/6" | |
| 2" | 62.5 | 86 | 22 | Rd72×1/6" | |
| 2 1/2" | 76.5 | 103 | 24 | Rd88×1/6" | |
| 3" | 88.5 | 115 | 25 | Rd100×1/6" | |
| 4" | 117 | 150 | 28 | Rd130×1/6" | |

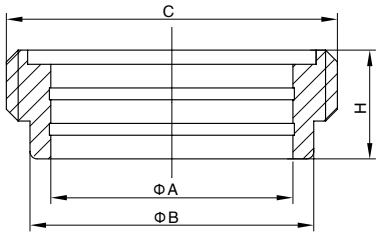
# ISO/DS union and accessories

## Liner



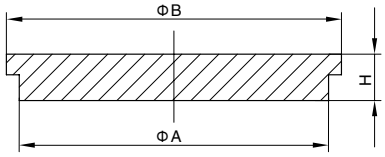

| Size | A | B | C | H | kg |
|---|---|---|---|---|---|
| 1" | 25.6 | 34.5 | 40 | 15 | |
| 1 1/4" | 32.2 | 41.5 | 48 | 16 | |
| 1 1/2" | 38.3 | 47.5 | 54 | 18 | |
| 2" | 51.2 | 61.5 | 68 | 20 | |
| 2 1/2" | 63.8 | 75.5 | 84 | 22 | |
| 3" | 76.4 | 87.5 | 96 | 24 | |
| 4" | 102 | 115.5 | 124.6 | 29 | |

## Mal



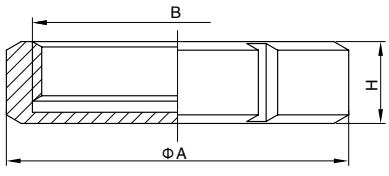

| Size | A | B | C | H | kg |
|---|---|---|---|---|---|
| 1" | 25.6 | 34.5 | Rd44×1/6" | 20 | |
| 1 1/4" | 32.2 | 41.5 | Rd52×1/6" | 20 | |
| 1 1/2" | 38.3 | 47.5 | Rd58×1/6" | 22 | |
| 2" | 51.2 | 61.5 | Rd72×1/6" | 24 | |
| 2 1/2" | 63.8 | 75.5 | Rd88×1/6" | 26 | |
| 3" | 76.4 | 87.5 | Rd100×1/6" | 28 | |
| 4" | 102 | 115 | Rd130×1/4" | 34 | |

## Blind liner




| Size | A | B | H | kg |
|---|---|---|---|---|
| 1" | 34.5 | 40.5 | 6 | |
| 1 1/4" | 41.5 | 48 | 6 | |
| 1 1/2" | 47.5 | 54 | 6 | |
| 2" | 61.5 | 68 | 6 | |
| 2 1/2" | 75.5 | 84 | 8 | |
| 3" | 87.5 | 96 | 8 | |
| 4" | 115.5 | 124.6 | 9 | |

## Blind nut




| Size | A | B | H | kg |
|---|---|---|---|---|
| 1" | 57 | Rd44×1/6" | 20 | |
| 1 1/4" | 65 | Rd52×1/6" | 20 | |
| 1 1/2" | 71 | Rd58×1/6" | 20 | |
| 2" | 88 | Rd72×1/6" | 22 | |
| 2 1/2" | 103 | Rd88×1/6" | 24 | |
| 3" | 115 | Rd100×1/6" | 25 | |
| 4" | 148 | Rd130×1/6" | 31 | |

bilfa

Hygienic Process Solutions