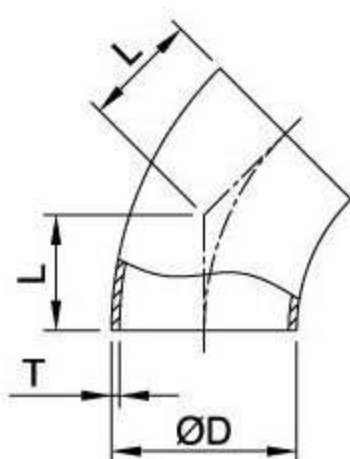


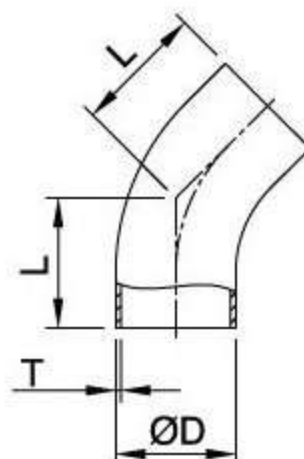
### 45° Short Elbow



### 45° Elbow

| SIZE | ØD    | L     | T    |
|------|-------|-------|------|
| 1.0" | 25.4  | 15.8  | 1.65 |
| 1.5" | 38.1  | 23.8  | 1.65 |
| 2.0" | 50.8  | 31.75 | 1.65 |
| 2.5" | 63.5  | 39.6  | 1.65 |
| 3.0" | 76.2  | 47.6  | 1.65 |
| 4.0" | 101.6 | 63.5  | 2.1  |

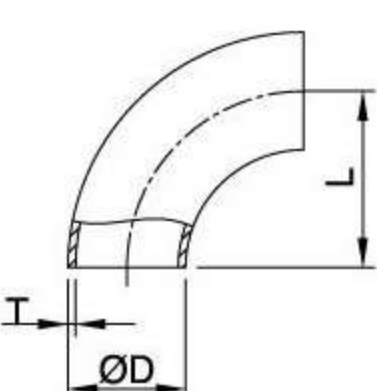
### 45° Long Elbow



### 45° Elbow

| SIZE | ØD    | L     | T    |
|------|-------|-------|------|
| 1.0" | 25.4  | 30.2  | 1.65 |
| 1.5" | 38.1  | 41.3  | 1.65 |
| 2.0" | 50.8  | 58.7  | 1.65 |
| 2.5" | 63.5  | 76.2  | 1.65 |
| 3.0" | 76.2  | 93.7  | 1.65 |
| 4.0" | 101.6 | 122.2 | 2.1  |

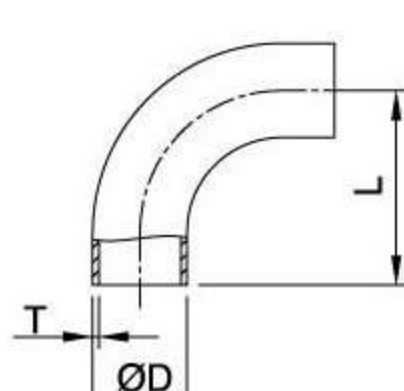
### 90° Short Elbow



### 90° Bend

| SIZE | ØD    | L     | T    |
|------|-------|-------|------|
| 1.0" | 25.4  | 38.1  | 1.65 |
| 1.5" | 38.1  | 57.2  | 1.65 |
| 2.0" | 50.8  | 76.2  | 1.65 |
| 2.5" | 63.5  | 95.25 | 1.65 |
| 3.0" | 76.2  | 114.3 | 1.65 |
| 4.0" | 101.6 | 152.4 | 2.1  |

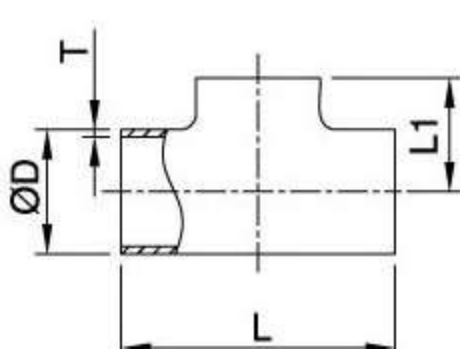
### 90° Long Elbow



### 90° Bend

| SIZE | ØD    | L     | T    |
|------|-------|-------|------|
| 1.0" | 25.4  | 52.4  | 1.65 |
| 1.5" | 38.1  | 74.6  | 1.65 |
| 2.0" | 50.8  | 103.2 | 1.65 |
| 2.5" | 63.5  | 131.8 | 1.65 |
| 3.0" | 76.2  | 160.3 | 1.65 |
| 4.0" | 101.6 | 211.1 | 2.1  |

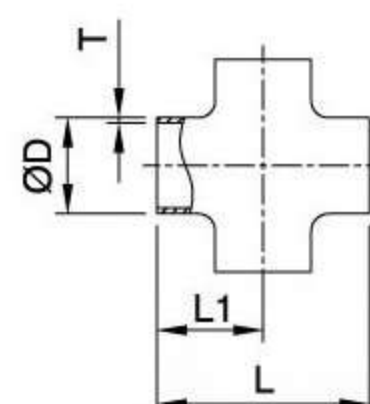
### Welding Tee



### Tee

| SIZE | ØD    | L     | L1   | T    |
|------|-------|-------|------|------|
| 1.0" | 25.4  | 95.2  | 47.6 | 1.65 |
| 1.5" | 38.1  | 114.4 | 57.2 | 1.65 |
| 2.0" | 50.8  | 152.4 | 76.2 | 1.65 |
| 2.5" | 63.5  | 152.4 | 76.2 | 1.65 |
| 3.0" | 76.2  | 165.2 | 82.6 | 1.65 |
| 4.0" | 101.6 | 196.8 | 98.4 | 2.1  |

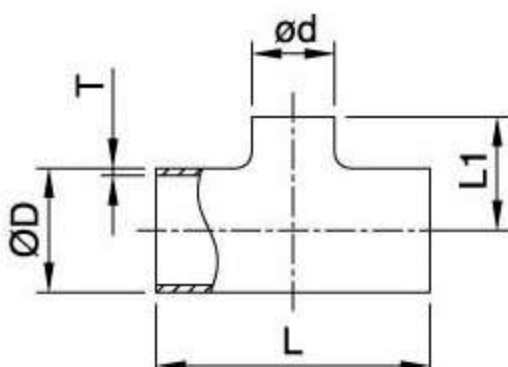
### Cross



### Cross

| SIZE | ØD    | L     | L1   | T    |
|------|-------|-------|------|------|
| 1.0" | 25.4  | 95.2  | 47.6 | 1.65 |
| 1.5" | 38.1  | 114.4 | 57.2 | 1.65 |
| 2.0" | 50.8  | 152.4 | 76.2 | 1.65 |
| 2.5" | 63.5  | 152.4 | 76.2 | 1.65 |
| 3.0" | 76.2  | 165.2 | 82.6 | 1.65 |
| 4.0" | 101.6 | 196.8 | 98.4 | 2.1  |

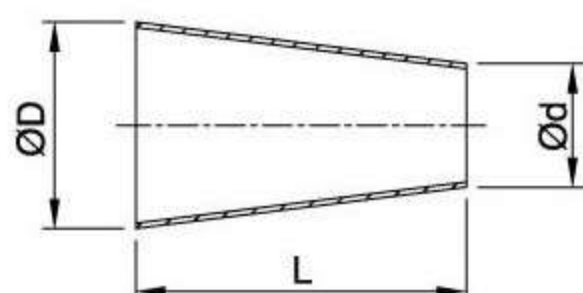
### Reducing Tee



### Reducing Tee

| SIZE      | ØD    | ød   | L     | L1    | T    |
|-----------|-------|------|-------|-------|------|
| 1.5"x1.0" | 38.1  | 25.4 | 114.3 | 53.98 | 1.65 |
| 2.0"x1.0" | 50.8  | 25.4 | 152.4 | 60.3  | 1.65 |
| 2.0"x1.5" | 50.8  | 38.1 | 152.4 | 63.5  | 1.65 |
| 2.5"x1.5" | 63.5  | 38.1 | 152.4 | 69.85 | 1.65 |
| 2.5"x2.0" | 63.5  | 50.8 | 152.4 | 82.55 | 1.65 |
| 3.0"x1.5" | 76.2  | 38.1 | 165.1 | 76.2  | 1.65 |
| 3.0"x2.0" | 76.2  | 50.8 | 165.1 | 88.90 | 1.65 |
| 3.0"x2.5" | 76.2  | 63.5 | 165.1 | 82.55 | 1.65 |
| 4.0"x2.0" | 101.6 | 50.8 | 196.8 | 101.6 | 2.1  |
| 4.0"x2.5" | 101.6 | 63.5 | 196.8 | 95.25 | 2.1  |
| 4.0"x3.0" | 101.6 | 76.2 | 196.8 | 95.25 | 2.1  |

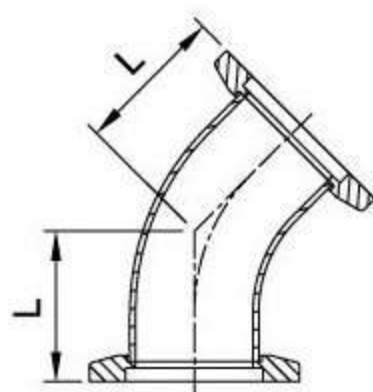
### Concentric Reducer



### Concentric Reducer

| SIZE      | ØD    | ød   | L     | T    |
|-----------|-------|------|-------|------|
| 1.5"x1.0" | 38.1  | 25.4 | 50.8  | 1.65 |
| 2.0"x1.5" | 50.8  | 38.1 | 50.8  | 1.65 |
| 2.5"x1.5" | 63.5  | 38.1 | 101.6 | 1.65 |
| 2.5"x2.0" | 63.5  | 50.8 | 50.8  | 1.65 |
| 3.0"x1.5" | 76.2  | 38.1 | 152.4 | 1.65 |
| 3.0"x2.0" | 76.2  | 50.8 | 101.6 | 1.65 |
| 3.0"x2.5" | 76.2  | 63.5 | 50.8  | 1.65 |
| 4.0"x1.5" | 101.6 | 38.1 | 254   | 2.1  |
| 4.0"x2.0" | 101.6 | 50.8 | 203.2 | 2.1  |
| 4.0"x2.5" | 101.6 | 63.5 | 152.4 | 2.1  |
| 4.0"x3.0" | 101.6 | 76.2 | 101.6 | 2.1  |

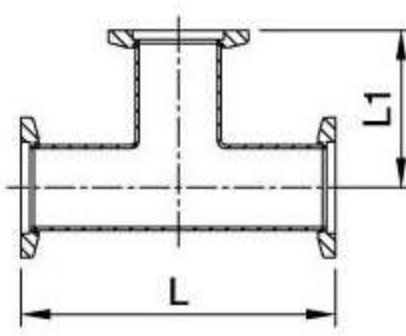
### 45° Elbow Flange



### Tube

| SIZE | O.D  | L     |
|------|------|-------|
| KF25 | 1.0" | 28.44 |
| KF40 | 1.5" | 42.67 |
| KF50 | 2.0" | 50.54 |

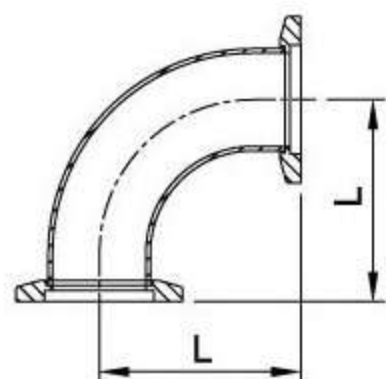
### Tee Flange



### Tube

| SIZE | O.D  | L      | L1    |
|------|------|--------|-------|
| KF25 | 1.0" | 100.07 | 50.03 |
| KF40 | 1.5" | 130.04 | 65.02 |
| KF50 | 2.0" | 139.95 | 70.01 |

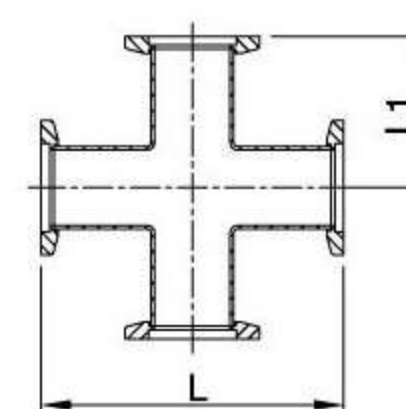
### 90° Elbow Flange



### Tube

| SIZE | O.D  | L     |
|------|------|-------|
| KF25 | 1.0" | 50.03 |
| KF40 | 1.5" | 65.02 |
| KF50 | 2.0" | 70.1  |

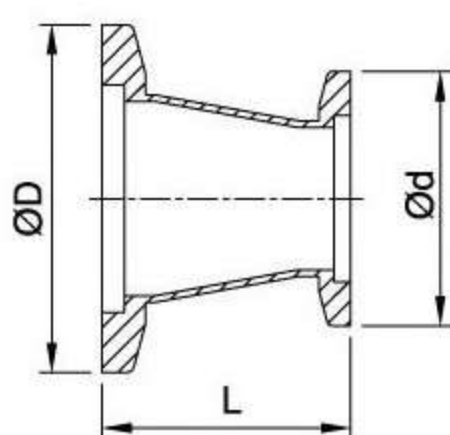
### 4-Way Cross Flange



### Tube

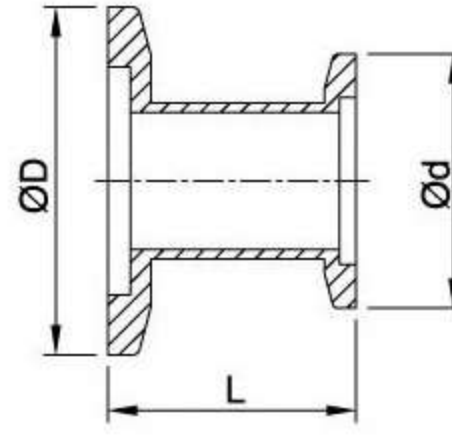
| SIZE | O.D  | L      | L1    |
|------|------|--------|-------|
| KF25 | 1.0" | 100.09 | 50.03 |
| KF40 | 1.5" | 130.04 | 65.02 |
| KF50 | 2.0" | 139.95 | 70.1  |

### Conical Reducer



| ØD   | ød   | L    |
|------|------|------|
| KF25 | KF16 | 39.9 |
| KF40 | KF16 | 39.9 |
| KF40 | KF25 | 39.9 |
| KF50 | KF16 | 39.9 |
| KF50 | KF25 | 39.9 |
| KF50 | KF40 | 39.9 |

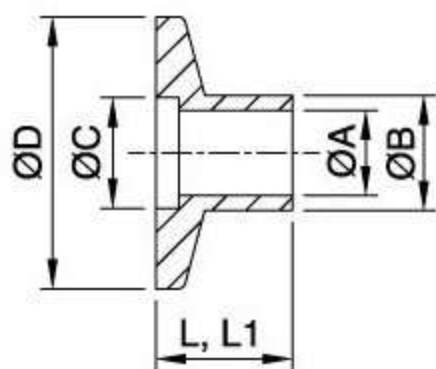
### Straight Reducer



| ØD   | ød   | L    |
|------|------|------|
| KF25 | KF16 | 39.9 |
| KF40 | KF16 | 39.9 |
| KF40 | KF25 | 39.9 |
| KF50 | KF16 | 39.9 |
| KF50 | KF25 | 39.9 |
| KF50 | KF40 | 39.9 |



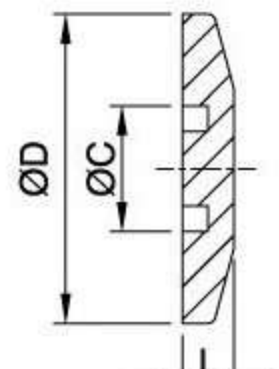
## Weld Flange



### Weld Flanges

| SIZE  | ØA   | ØB    | ØC   | ØD | L    | L1 |
|-------|------|-------|------|----|------|----|
| KF-10 | 9.4  | 12.7  | 12.2 | 30 | 12.7 | 40 |
| KF-16 | 15.7 | 19.05 | 17.3 | 30 | 12.7 | 40 |
| KF-25 | 22.1 | 25.4  | 26.2 | 40 | 12.7 | 40 |
| KF-40 | 33.8 | 38.1  | 41.1 | 55 | 19.1 | 40 |
| KF-50 | 46.5 | 50.8  | 52.3 | 75 | 19.1 | 40 |

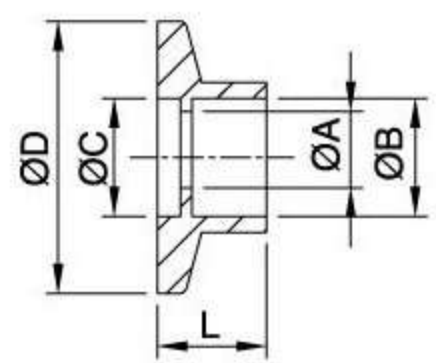
## Blank Flange



### Blank Flange

| SIZE  | ØC   | ØD | L   |
|-------|------|----|-----|
| KF-10 | 12.2 | 30 | 5.1 |
| KF-16 | 17.3 | 30 | 5.1 |
| KF-25 | 26.2 | 40 | 5.1 |
| KF-40 | 41.1 | 55 | 5.1 |
| KF-50 | 52.3 | 75 | 5.1 |

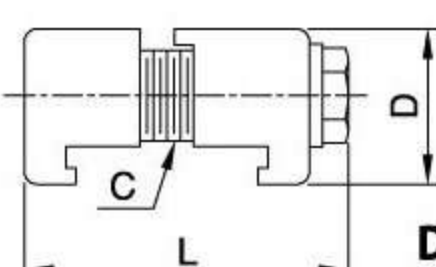
## Socket Weld Flange



### Socket Weld Flange

| SIZE  | ØA   | ØB   | ØC   | ØD   | L    |
|-------|------|------|------|------|------|
| KF-10 | 9.4  | 13.0 | 12.2 | 30.0 | 12.7 |
| KF-16 | 15.7 | 19.3 | 17.3 | 30.0 | 12.7 |
| KF-25 | 22.1 | 25.7 | 26.2 | 40.0 | 12.7 |
| KF-40 | 34.8 | 38.4 | 41.1 | 55.0 | 12.7 |
| KF-50 | 47.5 | 51.1 | 52.3 | 75.0 | 12.7 |

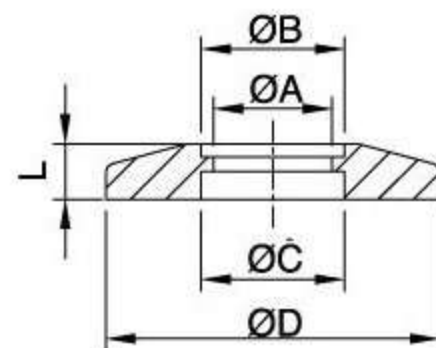
## ISO-Double Claw Clamp



### Double Claw Clamp

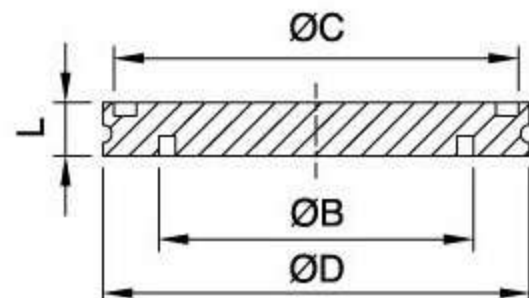
| SIZE    | C   | D    | L    |
|---------|-----|------|------|
| ISO-63  | M8  | 24.1 | 50.3 |
| ISO-80  | M8  | 24.1 | 50.3 |
| ISO-100 | M8  | 24.1 | 50.3 |
| ISO-160 | M10 | 27.9 | 52.1 |

## Bored Flange



| SIZE  | ØA    | ØB    | ØC   | ØD | L |
|-------|-------|-------|------|----|---|
| KF-10 | 11.17 | 12.95 | 12.2 | 30 | 5 |
| KF-16 | 17.27 | 19.3  | 17.3 | 30 | 5 |
| KF-25 | 22.6  | 25.9  | 26.2 | 40 | 5 |
| KF-40 | 35.3  | 38.6  | 41.1 | 55 | 5 |
| KF-50 | 48    | 51.3  | 52.3 | 75 | 5 |

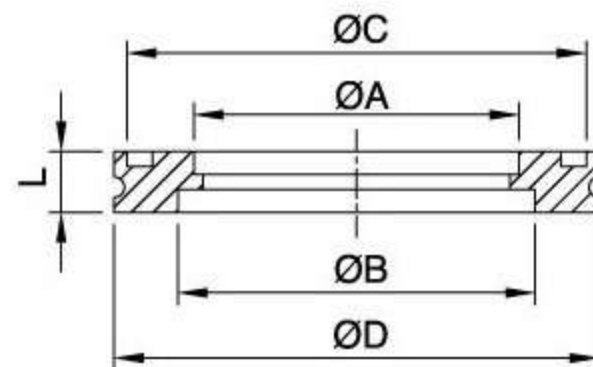
## ISO-Blank Flange



### Blank Flange

| SIZE    | ØB  | ØC  | ØD  | L  |
|---------|-----|-----|-----|----|
| ISO-63  | 70  | 90  | 95  | 12 |
| ISO-80  | 83  | 105 | 110 | 12 |
| ISO-100 | 102 | 125 | 130 | 12 |
| ISO-160 | 153 | 175 | 180 | 12 |

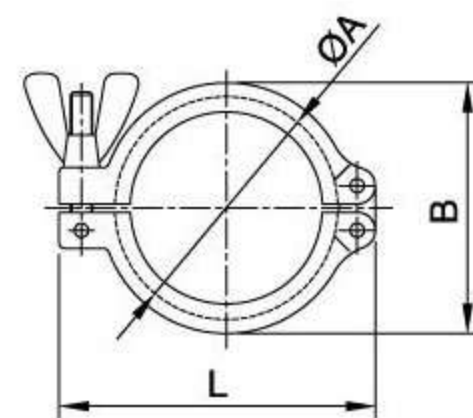
## ISO-Bored Flange



### Weld Flange

| SIZE    | ØA    | ØB  | ØC  | ØD  | L  |
|---------|-------|-----|-----|-----|----|
| ISO-63  | 63.7  | 70  | 90  | 95  | 12 |
| ISO-80  | 76.4  | 83  | 105 | 110 | 12 |
| ISO-100 | 101.8 | 102 | 125 | 130 | 12 |
| ISO-160 | 152.9 | 153 | 175 | 180 | 12 |

## KF-Clamp-Aluminum



| SIZE  | ØA | ØB | L    |
|-------|----|----|------|
| 10/16 | 35 | 45 | 62   |
| 20/25 | 45 | 55 | 73   |
| 32/40 | 60 | 70 | 86.1 |
| 50    | 80 | 96 | 123  |

## Centreing Ring (SS304 & Alu Material) with O-Ring (EPDM, Silicon)

### ISO-Type

| SIZE        | ØA     | ØB    | C  | D    | ØE  |
|-------------|--------|-------|----|------|-----|
| ISO-63-V-U  | 66.8   | 69.6  | 8  | 3.81 | 91  |
| ISO-80-V-U  | 79.75  | 82.6  | 8  | 3.81 | 104 |
| ISO-100-V-U | 98.8   | 101.6 | 8  | 3.81 | 123 |
| ISO-160-V-U | 149.86 | 152.6 | 8  | 3.81 | 170 |
| ISO-200-V-U | 207.8  | 212.6 | 8  | 3.81 | 234 |
| ISO-250-V-U | 257.5  | 260.4 | 8  | 3.81 | 285 |
| ISO-320-V-U | 312    | 317.3 | 12 | 5.58 | 340 |
| ISO-400-V-U | 394    | 399.2 | 12 | 5.58 | 416 |
| ISO-500-V-U | 494    | 500.2 | 12 | 5.58 | 555 |

### KF-Type

| SIZE  | ØA | ØB | C | D   |
|-------|----|----|---|-----|
| KF-10 | 10 | 12 | 8 | 3.9 |
| KF-16 | 16 | 17 | 8 | 3.9 |
| KF-25 | 25 | 26 | 8 | 3.9 |
| KF-40 | 40 | 41 | 8 | 3.9 |
| KF-50 | 50 | 52 | 8 | 3.9 |

### Clamping Element 3Pcs KF-TYPE (Alu or SS304)

| SIZE           | ØA   | C    |
|----------------|------|------|
| ISO-KF NW10/16 | 52.1 | 18   |
| ISO-KF NW20/25 | 55.1 | 16   |
| ISO-KF NW32/40 | 70.1 | 18   |
| ISO-KF NW50    | 95.3 | 24.9 |

### Clamp For Metal Seal (SS304 Stainless Steel) KF

| SIZE           | ØA   | ØB   |
|----------------|------|------|
| ISO-KF NW10/16 | 47   | 35.1 |
| ISO-KF NW20/25 | 57.2 | 45.2 |
| ISO-KF NW32/40 | 72.4 | 59.9 |
| ISO-KF NW50    | 96   | 80   |

### Quick Release Clamp KF-Type (Alu&SS304)

| SIZE           | A     | ØB   |
|----------------|-------|------|
| ISO-KF NW10/16 | 76.2  | 50.8 |
| ISO-KF NW20/25 | 76.2  | 50.8 |
| ISO-KF NW32/40 | 101.6 | 76.2 |

### Press Type Clamp Ring KF-TYPE (Alu or SS304)

| SIZE           | ØA   | B    |
|----------------|------|------|
| ISO-KF NW10/16 | 36.1 | 47   |
| ISO-KF NW20/25 | 46   | 57.2 |
| ISO-KF NW32/40 | 61   | 71.1 |
| ISO-KF NW50    | 82   | 90.9 |

### Chain Clamp (Alu, Plastic & SS304 material Link Steel)

| SIZE           | ØA    | ØB    |
|----------------|-------|-------|
| ISO-KF NW10/16 | 115.1 | 59.9  |
| ISO-KF NW20/25 | 1.9   | 52.1  |
| ISO-KF NW32/40 | 34.1  | 5.1   |
| ISO-KF NW50    | 151.9 | 104.9 |

## NW FLEXIBLE HOSES

| SIZE       | ØA | B    |
|------------|----|------|
| KF-16-250  | 30 | 250  |
| KF-16-500  | 30 | 500  |
| KF-16-750  | 30 | 750  |
| KF-16-1000 | 30 | 1000 |
| KF-25-250  | 40 | 250  |
| KF-25-500  | 40 | 500  |
| KF-25-750  | 40 | 750  |
| KF-25-1000 | 40 | 1000 |
| KF-40-250  | 55 | 250  |
| KF-40-500  | 55 | 500  |
| KF-40-750  | 55 | 750  |
| KF-40-1000 | 55 | 1000 |
| KF-50-250  | 75 | 250  |
| KF-50-500  | 75 | 500  |
| KF-50-750  | 75 | 750  |
| KF-50-1000 | 75 | 1000 |

## ISO FLEXIBLE HOSES

| SIZE         | ØA  | B    |
|--------------|-----|------|
| ISO-63-250   | 95  | 250  |
| ISO-63-500   | 95  | 500  |
| ISO-63-750   | 95  | 750  |
| ISO-63-1000  | 95  | 1000 |
| ISO-80-250   | 110 | 250  |
| ISO-80-500   | 110 | 500  |
| ISO-80-750   | 110 | 750  |
| ISO-80-1000  | 110 | 1000 |
| ISO-100-250  | 130 | 250  |
| ISO-100-500  | 130 | 500  |
| ISO-100-750  | 130 | 750  |
| ISO-100-1000 | 130 | 1000 |