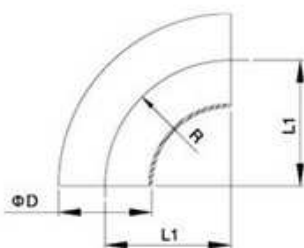


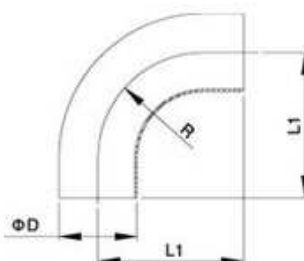
# SANITARY FITTINGS





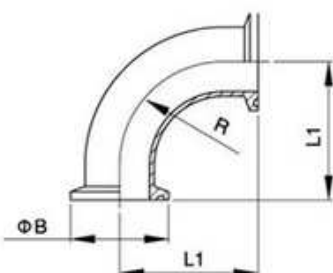
2WCL-90° Welded Elbow

| Size   | L1    | D     | R     |
|--------|-------|-------|-------|
| 1/2"   | 19.1  | 12.7  | 19.1  |
| 3/4"   | 28.6  | 19.1  | 28.6  |
| 1"     | 38.1  | 25.4  | 38.1  |
| 1 1/4" | 47.6  | 32    | 47.6  |
| 1 1/2" | 57.2  | 38.1  | 57.2  |
| 2"     | 76.2  | 50.8  | 76.2  |
| 2 1/2" | 95.3  | 63.5  | 95.3  |
| 3"     | 114.3 | 76.2  | 114.3 |
| 4"     | 152.4 | 101.6 | 152.4 |
| 5"     | 190.5 | 127.0 | 190.5 |
| 6"     | 228.6 | 152.4 | 228.6 |
| 8"     | 304.8 | 203.2 | 304.8 |
| 10"    | 381   | 254   | 381   |
| 12"    | 457.2 | 304.8 | 457.2 |



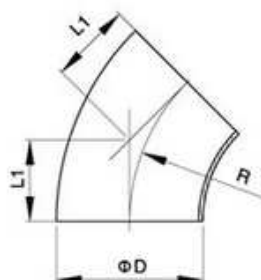
L2S-90° Welded Elbow with straight ends

| Size   | L1    | D     | R     |
|--------|-------|-------|-------|
| 1/2"   | 76.2  | 12.7  | 19.1  |
| 3/4"   | 76.2  | 19.1  | 28.6  |
| 1"     | 52.4  | 25.4  | 38.1  |
| 1 1/2" | 74.6  | 38.1  | 57.2  |
| 2"     | 103.2 | 50.8  | 76.2  |
| 2 1/2" | 131.8 | 63.5  | 95.3  |
| 3"     | 160.3 | 76.2  | 114.3 |
| 4"     | 211.1 | 101.6 | 152.4 |
| 6"     | 292.1 | 152.4 | 228.6 |
| 6"     | 279.4 | 152.4 | 228.6 |



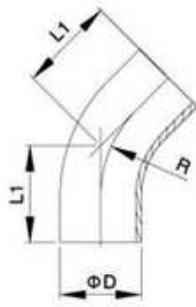
2CMP-90° Clamped Elbow

| Size   | L1    | B     | R     |
|--------|-------|-------|-------|
| 1"     | 50.8  | 50.5  | 38.1  |
| 1 1/2" | 69.9  | 50.5  | 57.2  |
| 2"     | 88.9  | 64.0  | 76.2  |
| 2 1/2" | 108.0 | 77.5  | 95.3  |
| 3"     | 127.0 | 91.0  | 114.3 |
| 4"     | 168.2 | 119.0 | 152.4 |
| 6"     | 250.8 | 167   | 228.6 |



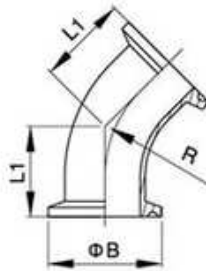
2WK-45° Welded Elbow

| Size   | L1     | D     | R     |
|--------|--------|-------|-------|
| 1/2"   | 7.9    | 12.7  | 19.05 |
| 3/4"   | 11.9   | 19    | 28.5  |
| 1"     | 15.8   | 25.4  | 38.1  |
| 1 1/4" | 19.7   | 32    | 47.6  |
| 1 1/2" | 23.8   | 38.1  | 57.2  |
| 2"     | 31.8   | 50.8  | 76.2  |
| 2 1/2" | 39.6   | 63.5  | 95.3  |
| 3"     | 47.6   | 76.2  | 114.3 |
| 4"     | 63.5   | 101.6 | 152.4 |
| 5"     | 78.9   | 127   | 190.5 |
| 6"     | 94.7   | 152.4 | 228.6 |
| 8"     | 127    | 203.2 | 304.8 |
| 10"    | 158.75 | 254   | 381   |



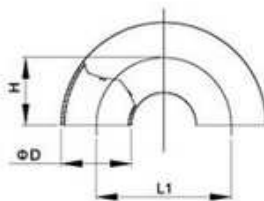
L2KS-45° Welded Elbow with straight ends

| Size   | L1    | D     | R     |
|--------|-------|-------|-------|
| 1"     | 30.2  | 25.4  | 38.1  |
| 1 1/2" | 41.3  | 38.1  | 57.2  |
| 2"     | 58.7  | 50.8  | 76.2  |
| 2 1/2" | 76.2  | 63.5  | 95.3  |
| 3"     | 93.7  | 76.2  | 114.3 |
| 4"     | 122.2 | 101.6 | 152.4 |
| 6"     | 158.2 | 152.4 | 228.6 |



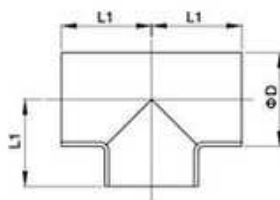
2KMP-45° Clamped Elbow

| Size   | L1   | B     | R     |
|--------|------|-------|-------|
| 1"     | 28.5 | 50.5  | 38.1  |
| 1 1/2" | 36.5 | 50.5  | 57.2  |
| 2"     | 44.5 | 64.0  | 76.2  |
| 2 1/2" | 52.3 | 77.5  | 95.3  |
| 3"     | 60.3 | 91.0  | 114.3 |
| 4"     | 76.2 | 119.0 | 152.4 |



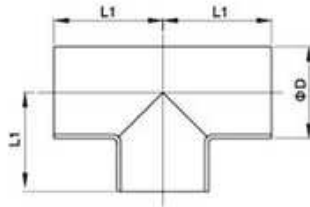
2WU-180° Welded Elbow

| Size   | L1    | D     | H     |
|--------|-------|-------|-------|
| 1"     | 76.2  | 25.4  | 38.1  |
| 1 1/2" | 114.3 | 38.1  | 57.2  |
| 2"     | 152.4 | 50.8  | 76.2  |
| 2 1/2" | 190.5 | 63.5  | 95.3  |
| 3"     | 228.6 | 76.2  | 114.3 |
| 4"     | 304.8 | 101.6 | 152.4 |



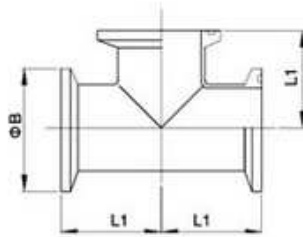
7WWW-Short welded Tee

| Size   | L1   | D     |
|--------|------|-------|
| 1/2"   | 28.6 | 12.7  |
| 3/4"   | 28.6 | 19    |
| 1"     | 28.6 | 25.4  |
| 1 1/2" | 42.0 | 38.1  |
| 2"     | 52.3 | 50.8  |
| 2 1/2" | 59.5 | 63.5  |
| 3"     | 65.9 | 76.2  |
| 4"     | 87.3 | 101.6 |
| 5"     | 127  | 127   |
| 6"     | 127  | 152.4 |



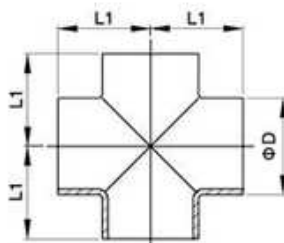
7W-Long welded Tee

| Size   | L1    | D     |
|--------|-------|-------|
| 1/2"   | 47.6  | 12.7  |
| 3/4"   | 47.6  | 19    |
| 1"     | 47.6  | 25.4  |
| 1 1/4" | 52.4  | 32    |
| 1 1/2" | 57.2  | 38.1  |
| 2"     | 76.2  | 50.8  |
| 2 1/2" | 76.2  | 63.5  |
| 3"     | 82.6  | 76.2  |
| 4"     | 98.4  | 101.6 |
| 5"     | 132.5 | 127   |
| 6"     | 143   | 152.4 |
| 8"     | 177.8 | 203.2 |
| 10"    | 216   | 254   |



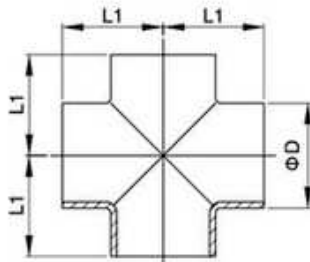
7MP-Clamped Tee

| Size   | L1    | B     |
|--------|-------|-------|
| 1/2"   | 60.3  | 25.2  |
| 3/4"   | 60.3  | 25.2  |
| 1"     | 60.3  | 50.5  |
| 1 1/2" | 69.9  | 50.5  |
| 2"     | 88.9  | 64.0  |
| 2 1/2" | 88.9  | 77.5  |
| 3"     | 95.3  | 91.0  |
| 4"     | 114.2 | 119.0 |
| 6"     | 164.5 | 167   |
| 8"     | 199.3 | 217.7 |



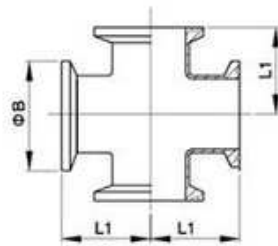
9W-Welded Cross (Long-type)

| Size   | L1    | D     |
|--------|-------|-------|
| 1/2"   | 47.6  | 127   |
| 3/4"   | 47.6  | 19    |
| 1"     | 47.6  | 25.4  |
| 1 1/2" | 57.2  | 38.1  |
| 2"     | 76.2  | 50.8  |
| 2 1/2" | 76.2  | 63.5  |
| 3"     | 82.6  | 76.2  |
| 4"     | 98.4  | 101.6 |
| 6"     | 143   | 152.4 |
| 8"     | 177.8 | 203.2 |



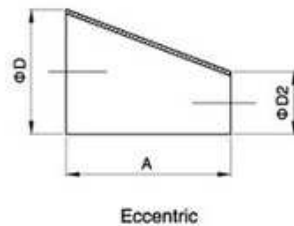
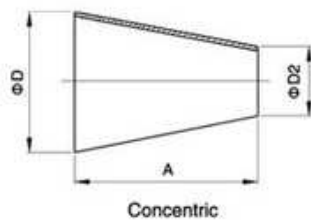
9WWW-Welded Cross (Short-type)

| Size   | L1   | D     |
|--------|------|-------|
| 1"     | 28.6 | 25.4  |
| 1 1/2" | 42.1 | 38.1  |
| 2"     | 52.4 | 50.8  |
| 2 1/2" | 54.5 | 63.5  |
| 3"     | 65.9 | 76.2  |
| 4"     | 87.3 | 101.6 |



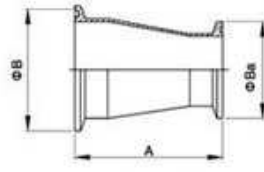
9MP-ClampedCross

| Size   | L1    | B     |
|--------|-------|-------|
| 1/2"   | 60.3  | 25.2  |
| 3/4"   | 60.3  | 25.2  |
| 1"     | 60.3  | 50.5  |
| 1 1/2" | 69.9  | 50.5  |
| 2"     | 88.9  | 64.0  |
| 2 1/2" | 88.9  | 91.0  |
| 3"     | 95.3  | 106.0 |
| 4"     | 114.3 | 119.0 |
| 6"     | 164.5 | 167   |

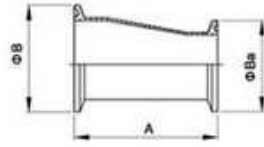


L31/32-Welded Reducer

| Size       | A     | D     | D2    |
|------------|-------|-------|-------|
| 1"/0.5"    | 50.8  | 25.4  | 12.7  |
| 1.5"/0.75" | 76.2  | 38.1  | 19    |
| 1.5"/1.0"  | 50.8  | 38.1  | 25.4  |
| 2.0"/1.0"  | 101.6 | 50.8  | 25.4  |
| 2.0"/1.5"  | 50.8  | 50.8  | 38.1  |
| 2.5"/1.0"  | 152.4 | 63.5  | 25.4  |
| 2.5"/1.5"  | 101.6 | 63.5  | 38.1  |
| 2.5"/2.0"  | 50.8  | 63.5  | 50.8  |
| 3.0"/1.0"  | 203.2 | 76.2  | 25.4  |
| 3.0"/1.5"  | 152.4 | 76.2  | 38.1  |
| 3.0"/2.0"  | 101.6 | 76.2  | 50.8  |
| 3.0"/2.5"  | 50.8  | 76.2  | 63.5  |
| 4.0"/1.0"  | 304.8 | 101.6 | 25.4  |
| 4.0"/1.5"  | 254   | 101.6 | 38.1  |
| 4.0"/2.0"  | 203.2 | 101.6 | 50.8  |
| 4.0"/2.5"  | 152.4 | 101.6 | 63.5  |
| 4.0"/3.0"  | 101.6 | 101.6 | 76.2  |
| 5.0"/3.0"  | 127   | 127   | 76.2  |
| 5.0"/4.0"  | 127   | 127   | 101.6 |
| 6.0"/2.0"  | 140   | 152.4 | 50.8  |
| 6.0"/2.5"  | 140   | 152.4 | 63.5  |
| 6.0"/3.0"  | 140.0 | 152.4 | 76.2  |
| 6.0"/4.0"  | 140.0 | 152.4 | 101.6 |
| 8.0"/3.0"  | 152.4 | 203.2 | 76.2  |
| 8.0"/4.0"  | 152.4 | 203.2 | 101.6 |
| 8.0"/6.0"  | 152.4 | 203.2 | 152.4 |
| 10.0"/6.0" | 177.8 | 254   | 152.4 |
| 10.0"/8.0" | 177.8 | 254   | 203.2 |
| 12.0"/6.0" | 203.2 | 304.8 | 152.4 |
| 12.0"/8.0" | 203.2 | 304.8 | 203.2 |



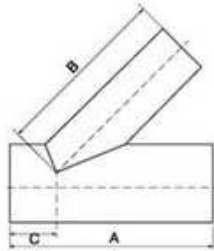
Concentric



Eccentric

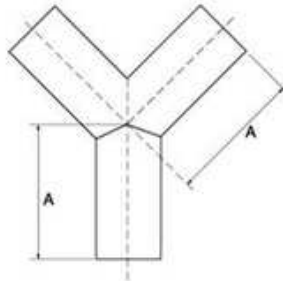
### 31-14MP/32-14MP Clamped Reducer

| Size      | A     | B     | Ba   |
|-----------|-------|-------|------|
| 1.5"/1.0" | 76.2  | 50.5  | 50.5 |
| 2.0"/1.0" | 127.0 | 64.0  | 50.5 |
| 2.0"/1.5" | 76.2  | 64.0  | 50.5 |
| 2.5"/1.5" | 127.0 | 77.5  | 50.5 |
| 2.5"/2.0" | 76.2  | 77.5  | 64.0 |
| 3.0"/1.5" | 177.8 | 91.0  | 50.5 |
| 3.0"/2.0" | 127.0 | 91.0  | 64.0 |
| 3.0"/2.5" | 76.2  | 91.0  | 77.5 |
| 4.0"/2.0" | 231.8 | 119.0 | 64.0 |
| 4.0"/2.5" | 181.0 | 119.0 | 77.5 |
| 4.0"/3.0" | 130.2 | 119.0 | 91.0 |



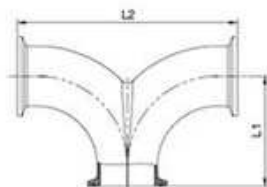
### 28WA-Butt weld Y-type Tee

| Size   | A     | B     | C     |
|--------|-------|-------|-------|
| 1/2"   | 152.4 | 127.0 | 25.4  |
| 3/4"   | 152.4 | 127.0 | 25.4  |
| 1"     | 152.4 | 127.0 | 25.4  |
| 1 1/2" | 187.3 | 173.1 | 30.2  |
| 2"     | 222.2 | 180.9 | 41.3  |
| 2 1/2" | 254   | 215.9 | 38.1  |
| 3"     | 273.1 | 225.4 | 47.6  |
| 4"     | 325.5 | 273.1 | 52.4  |
| 6"     | 419.1 | 317.5 | 101.6 |



### 28WB-Butt weld Y-type Tee

| Size   | A     |
|--------|-------|
| 1/2"   | 50.8  |
| 3/4"   | 50.8  |
| 1"     | 76.2  |
| 1 1/2" | 76.2  |
| 2"     | 101.6 |
| 2 1/2" | 127   |
| 3"     | 152.4 |
| 4"     | 203.2 |
| 6"     | 203.2 |



### 90°Clamp Double Bend

| Size   | L1    | L2    |
|--------|-------|-------|
| 1"     | 50.8  | 101.6 |
| 1 1/2" | 69.85 | 139.7 |
| 1 1/4" | 60.4  | 120.8 |
| 2"     | 88.9  | 177.8 |
| 2 1/2" | 107.9 | 215.9 |
| 3"     | 127.0 | 228.6 |
| 4"     | 168.4 | 336.8 |