

# Century

Valves & Hydrants

## FLANGE FITTINGS

DUCTILE IRON A536  
ANSI B16.1 CLASS 125/150  
ANSI B16.1 Class 250

## Century Flange Fittings

Century Valves & Hydrants manufactures high-strength ductile iron flanged fittings designed for use in both waterworks and industrial systems. All products meet or exceed applicable industry standards.

The flanged fittings are produced in compliance with ANSI/AWWA C110/A21.10 and ANSI B16.1, Class 125, and are available in sizes from 2" to 48".

Each fitting is hydrostatically tested at 1.5 times its rated working pressure to confirm casting strength and quality.

All ductile iron fittings are manufactured from ductile iron meeting ASTM A536 requirements, with reference to AWWA C110, Section 5.4.2.1.1, and are rated at 250 psi.

Flanges are faced and drilled in accordance with ANSI B16.1 Class 125

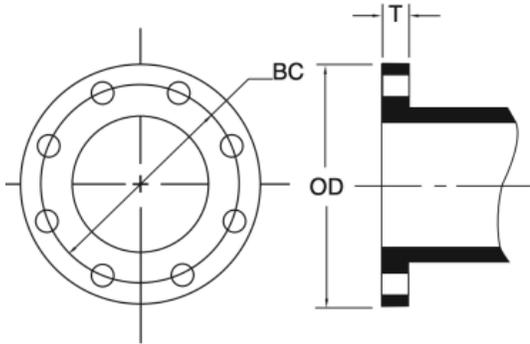
### Interior Linings

- Cement-mortar lining with bitumen seal coat per ANSI/AWWA C104/A21.4.
- Special coatings available upon request for particular service environments.

### Exterior Coatings

- Special primer coatings available upon request for particular service environments.

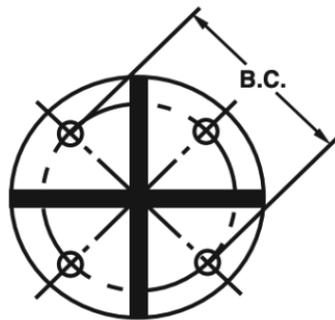
## Flange Joint Dimensions ANSI/AWWA C110-A21.10



| SIZE   | OD    | BC    | T       | HOLE Ø | BOLT SIZE     | NO. of BOLTS |
|--------|-------|-------|---------|--------|---------------|--------------|
| 2"     | 6.00  | 4.75  | 5/8     | 3/4    | 5/8 x 2 1/2   | 4            |
| 2 1/2" | 7.00  | 5.00  | 11/16   | 3/4    | 5/8 x 2 1/2   | 4            |
| 3"     | 7.50  | 6.00  | 3/4     | 3/4    | 5/8 x 2 1/2   | 4            |
| 4"     | 9.00  | 7.50  | 15/16   | 3/4    | 5/8 x 3       | 8            |
| 5"     | 10.00 | 8.50  | 15/16   | 7/8    | 3/4 x 3 1/2   | 8            |
| 6"     | 11.00 | 9.50  | 1       | 7/8    | 3/4 x 3 1/2   | 8            |
| 8"     | 13.50 | 11.75 | 1 1/8   | 7/8    | 3/4 x 3 1/2   | 8            |
| 10"    | 16.00 | 14.25 | 1 3/16  | 1      | 7/8 x 4       | 12           |
| 12"    | 19.00 | 17.00 | 1 1/4   | 1      | 7/8 x 4       | 12           |
| 14"    | 21.00 | 18.75 | 1 3/8   | 1 1/8  | 1 x 4 1/2     | 12           |
| 16"    | 23.50 | 21.25 | 1 7/16  | 1 1/8  | 1 x 4 1/2     | 16           |
| 18"    | 25.00 | 22.75 | 1 9/16  | 1 1/4  | 1 1/8 x 5     | 16           |
| 20"    | 27.50 | 25.00 | 1 11/16 | 1 1/4  | 1 1/8 x 5     | 20           |
| 24"    | 32.00 | 29.50 | 1 7/8   | 1 3/8  | 1 1/4 x 5 1/2 | 20           |

Dimensions in inches.

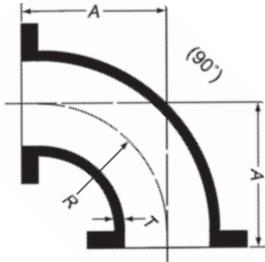
## Base Dimensions



| SIZE | BC    | HOLE DIA. | NO. of BOLTS |
|------|-------|-----------|--------------|
| 3"   | 3.88  | 0.62      | 4            |
| 4"   | 4.75  | 0.75      | 4            |
| 6"   | 5.50  | 0.75      | 4            |
| 8"   | 7.50  | 0.75      | 4            |
| 10"  | 7.50  | 0.75      | 4            |
| 12"  | 9.50  | 0.88      | 4            |
| 14"  | 9.50  | 0.88      | 4            |
| 16"  | 9.50  | 0.88      | 4            |
| 18"  | 11.75 | 0.88      | 4            |
| 20"  | 11.75 | 0.88      | 4            |
| 24"  | 11.75 | 0.88      | 4            |
| 30"  | 14.25 | 1.00      | 4            |
| 36"  | 17.00 | 1.00      | 4            |
| 42"  | 21.25 | 1.12      | 4            |
| 48"  | 22.75 | 1.25      | 4            |

Dimensions in inches.

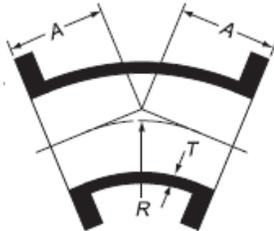
## Bends, 1/4 (90°)



| SIZE   | PART NUMBER | A    | R    | T   | Wt. (Lbs) | Wt. (Kg) |
|--------|-------------|------|------|-----|-----------|----------|
| 2"     | EL-F-90-120 | 4.5  | 3.0  | .31 | 14        | 6        |
| 2 1/2" | EL-F-90-125 | 5.0  | 3.5  | .31 | 19        | 9        |
| 3"     | EL-F-90-130 | 5.5  | 4.0  | .38 | 25        | 11       |
| 4"     | EL-F-90-140 | 6.5  | 4.5  | .50 | 45        | 20       |
| 5"     | EL-F-90-150 | 7.5  | 5.5  | .50 | 52        | 24       |
| 6"     | EL-F-90-160 | 8.0  | 6.0  | .56 | 65        | 29       |
| 8"     | EL-F-90-180 | 9.0  | 7.0  | .62 | 105       | 48       |
| 10"    | EL-F-90-200 | 11.0 | 9.0  | .75 | 165       | 75       |
| 12"    | EL-F-90-220 | 12.0 | 10.0 | .81 | 235       | 107      |
| 14"    | EL-F-90-240 | 14.0 | 11.5 | .66 | 290       | 132      |
| 16"    | EL-F-90-260 | 15.0 | 12.5 | .70 | 370       | 168      |
| 18"    | EL-F-90-280 | 16.5 | 14.0 | .75 | 450       | 204      |
| 20"    | EL-F-90-300 | 18.0 | 15.5 | .80 | 580       | 263      |
| 24"    | EL-F-90-340 | 22.0 | 18.5 | .89 | 900       | 408      |

Dimensions in inches.

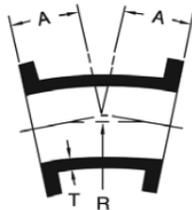
## Bends, 1/8 (45°)



| SIZE   | PART NUMBER | A    | R     | T   | Wt. (Lbs) | Wt. (Kg) |
|--------|-------------|------|-------|-----|-----------|----------|
| 2"     | EL-F-45-120 | 2.5  | 2.4   | .31 | 12        | 5        |
| 2 1/2" | EL-F-45-125 | 3.0  | 3.6   | .31 | 17        | 8        |
| 3"     | EL-F-45-130 | 3.0  | 3.6   | .38 | 20        | 9        |
| 4"     | EL-F-45-140 | 4.0  | 4.8   | .50 | 40        | 18       |
| 5"     | EL-F-45-150 | 4.5  | 6.0   | .50 | 45        | 20       |
| 6"     | EL-F-45-160 | 5.0  | 7.3   | .56 | 55        | 25       |
| 8"     | EL-F-45-180 | 5.5  | 8.4   | .62 | 90        | 41       |
| 10"    | EL-F-45-200 | 6.5  | 10.9  | .75 | 130       | 59       |
| 12"    | EL-F-45-220 | 7.5  | 13.3  | .81 | 195       | 88       |
| 14"    | EL-F-45-240 | 7.5  | 12.06 | .66 | 220       | 100      |
| 16"    | EL-F-45-260 | 8.0  | 13.25 | .70 | 280       | 127      |
| 18"    | EL-F-45-280 | 8.5  | 14.50 | .75 | 325       | 147      |
| 20"    | EL-F-45-300 | 9.5  | 16.88 | .80 | 430       | 195      |
| 24"    | EL-F-45-340 | 11.0 | 18.12 | .89 | 630       | 286      |

Dimensions in inches.

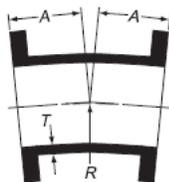
## Bends, 1/16 (22 1/2°)



| SIZE | PART NUMBER   | A   | R     | T   | Wt. (Lbs) | Wt. (Kg) |
|------|---------------|-----|-------|-----|-----------|----------|
| 3"   | EL-F-22.5-130 | 3.0 | 7.6   | .38 | 20        | 9        |
| 4"   | EL-F-22.5-140 | 4.0 | 10.06 | .50 | 40        | 18       |
| 6"   | EL-F-22.5-160 | 5.0 | 15.06 | .56 | 55        | 25       |
| 8"   | EL-F-22.5-180 | 5.5 | 17.62 | .62 | 90        | 41       |
| 10"  | EL-F-22.5-200 | 6.5 | 22.62 | .75 | 135       | 61       |
| 12"  | EL-F-22.5-220 | 7.5 | 27.62 | .81 | 205       | 93       |

Dimensions in inches.

## Bends, 1/32 (11 1/4°)

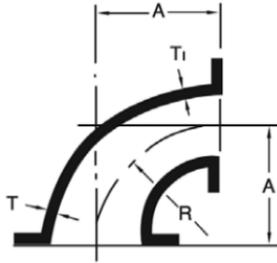


| SIZE | PART NUMBER    | A   | R     | T   | Wt. (Lbs) | Wt. (Kg) |
|------|----------------|-----|-------|-----|-----------|----------|
| 3"   | EL-F-11.25-130 | 3.0 | 15.25 | .38 | 20        | 9        |
| 4"   | EL-F-11.25-140 | 4.0 | 20.31 | .50 | 40        | 18       |
| 6"   | EL-F-11.25-160 | 5.0 | 30.50 | .56 | 55        | 25       |
| 8"   | EL-F-11.25-180 | 5.5 | 35.50 | .62 | 90        | 41       |
| 10"  | EL-F-11.25-200 | 6.5 | 45.69 | .75 | 135       | 61       |
| 12"  | EL-F-11.25-220 | 7.5 | 55.81 | .81 | 205       | 93       |

Dimensions in inches.

Sizes up to 48" available upon request.

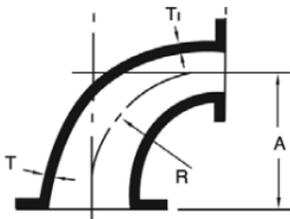
## Reducing Bends 90°



| SIZE        | PART NUMBER    | A    | R    | T   | T1  | Wt. (Lbs) | Wt. (Kg) |
|-------------|----------------|------|------|-----|-----|-----------|----------|
| 3" x 2"     | EL-F-90-130120 | 5.5  | 4.0  | .38 | .31 | 19        | 9        |
| 3" x 2 1/2" | EL-F-90-130125 | 5.5  | 4.0  | .38 | .31 | 22        | 10       |
| 4" x 2"     | EL-F-90-140120 | 6.5  | 4.0  | .50 | .31 | 29        | 13       |
| 4" x 2 1/2" | EL-F-90-140125 | 6.5  | 4.0  | .50 | .31 | 31        | 14       |
| 4" x 3"     | EL-F-90-140130 | 6.5  | 4.5  | .50 | .38 | 33        | 15       |
| 5" x 3"     | EL-F-90-150130 | 7.5  | 5.0  | .50 | .50 | 44        | 20       |
| 5" x 4"     | EL-F-90-150140 | 7.5  | 5.0  | .50 | .50 | 48        | 22       |
| 6" x 3"     | EL-F-90-160130 | 8.0  | 6.0  | .56 | .38 | 45        | 20       |
| 6" x 4"     | EL-F-90-160140 | 8.0  | 6.0  | .56 | .50 | 55        | 25       |
| 6" x 5"     | EL-F-90-160150 | 8.0  | 6.0  | .62 | .50 | 65        | 29       |
| 8" x 4"     | EL-F-90-180140 | 9.0  | 7.0  | .62 | .50 | 75        | 34       |
| 8" x 5"     | EL-F-90-180150 | 9.0  | 7.0  | .62 | .56 | 80        | 36       |
| 8" x 6"     | EL-F-90-180160 | 9.0  | 7.0  | .75 | .56 | 85        | 39       |
| 10" x 4"    | EL-F-90-200140 | 11.0 | 9.0  | .75 | .50 | 110       | 50       |
| 10" x 6"    | EL-F-90-200160 | 11.0 | 9.0  | .75 | .56 | 135       | 61       |
| 10" x 8"    | EL-F-90-200180 | 11.0 | 9.0  | .75 | .62 | 150       | 68       |
| 12" x 4"    | EL-F-90-220140 | 12.0 | 10.0 | .81 | .50 | 140       | 64       |
| 12" x 6"    | EL-F-90-220160 | 12.0 | 10.0 | .81 | .56 | 160       | 73       |
| 12" x 8"    | EL-F-90-220180 | 12.0 | 10.0 | .81 | .62 | 180       | 82       |
| 12" x 10"   | EL-F-90-220200 | 12.0 | 10.0 | .81 | .75 | 210       | 95       |
| 14" x 10"   | EL-F-90-240200 | 14.0 | 11.5 | .66 | .68 | 240       | 109      |
| 14" x 12"   | EL-F-90-240220 | 14.0 | 11.5 | .66 | .75 | 270       | 122      |
| 16" x 10"   | EL-F-90-260200 | 15.0 | 12.5 | .70 | .68 | 285       | 129      |
| 16" x 12"   | EL-F-90-260220 | 15.0 | 12.5 | .70 | .75 | 310       | 141      |
| 16" x 14"   | EL-F-90-260240 | 15.0 | 12.5 | .70 | .66 | 330       | 150      |

Dimensions in inches.

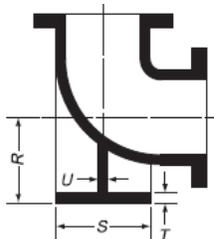
## Long Radius Bends



| SIZE    | PART NUMBER       | A    | R    | T   | Wt. (Lbs) | Wt. (Kg) |
|---------|-------------------|------|------|-----|-----------|----------|
| 2"      | EL-LR-F-90-120    | 6.5  | 5.0  | .31 | 16        | 7        |
| 2 1/2"  | EL-LR-F-90-125    | 7.0  | 5.5  | .31 | 23        | 10       |
| 3"      | EL-LR-F-90-130    | 7.5  | 6.0  | .38 | 28        | 13       |
| 4" x 3" | EL-LR-F-90-140130 | 9.0  | 7.0  | .48 | 38        | 17       |
| 4"      | EL-LR-F-90-140    | 9.0  | 7.0  | .50 | 48        | 22       |
| 6" x 4" | EL-LR-F-90-160140 | 11.5 | 9.5  | .55 | 70        | 32       |
| 6"      | EL-LR-F-90-160    | 11.5 | 9.5  | .56 | 85        | 39       |
| 8" x 6" | EL-LR-F-90-180160 | 14.0 | 12.0 | .60 | 116       | 53       |
| 8"      | EL-LR-F-90-180    | 14.0 | 12.0 | .62 | 145       | 66       |
| 10"     | EL-LR-F-90-200    | 16.5 | 14.0 | .75 | 230       | 104      |
| 12"     | EL-LR-F-90-220    | 19.0 | 17.0 | .81 | 350       | 159      |

Dimensions in inches.

## Base Bend

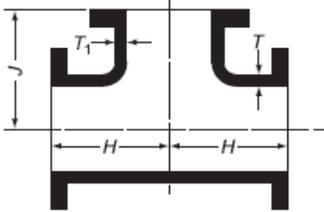


| SIZE | PART NUMBER  | R     | S    | T   | U   | Wt. (Lbs) | Wt. (Kg) |
|------|--------------|-------|------|-----|-----|-----------|----------|
| 3"   | BEL-F-90-130 | 4.0   | 5.0  | .28 | .50 | 36        | 16       |
| 4"   | BEL-F-90-140 | 5.5   | 6.0  | .62 | .50 | 55        | 25       |
| 6"   | BEL-F-90-160 | 7.0   | 7.0  | .69 | .62 | 85        | 39       |
| 8"   | BEL-F-90-180 | 8.38  | 9.0  | .94 | .88 | 145       | 66       |
| 10"  | BEL-F-90-200 | 9.75  | 9.0  | .94 | .88 | 210       | 95       |
| 12"  | BEL-F-90-220 | 11.25 | 11.0 | 1.0 | 1.0 | 300       | 136      |
| 14"  | BEL-F-90-240 | 12.50 | 11.0 | 1.0 | 1.0 | 360       | 163      |
| 16"  | BEL-F-90-260 | 13.75 | 11.0 | 1.0 | 1.0 | 445       | 202      |

Dimensions in inches.

Sizes up to 48" available upon request.

## Tees



| SIZE        | PART NUMBER | H    | T   | T1  | Wt. (Lbs) | Wt. (Kg) |
|-------------|-------------|------|-----|-----|-----------|----------|
| 2"          | T-F-120     | 4.5  | .31 | .31 | 20        | 9        |
| 2 1/2"      | T-F-125     | 5.0  | .31 | .31 | 30        | 14       |
| 3" x 2"     | T-F-130120  | 5.5  | .38 | .31 | 35        | 16       |
| 3" x 2 1/2" | T-F-130125  | 5.5  | .38 | .31 | 38        | 17       |
| 3"          | T-F-130     | 5.5  | .38 | .31 | 40        | 18       |
| 4" x 2"     | T-F-140120  | 6.5  | .50 | .31 | 50        | 23       |
| 4" x 2 1/2" | T-F-140125  | 6.5  | .50 | .31 | 55        | 25       |
| 4" x 3"     | T-F-140130  | 6.5  | .50 | .38 | 60        | 27       |
| 4"          | T-F-140     | 6.5  | .50 | .50 | 65        | 29       |
| 5"          | T-F-150     | 7.5  | .50 | .50 | 85        | 39       |
| 6" x 2"     | T-F-160120  | 8.0  | .56 | .31 | 86        | 39       |
| 6" x 3"     | T-F-160130  | 8.0  | .56 | .38 | 85        | 39       |
| 6" x 4"     | T-F-160140  | 8.0  | .56 | .50 | 90        | 41       |
| 6" x 5"     | T-F-160150  | 8.0  | .56 | .53 | 92        | 42       |
| 6"          | T-F-160     | 8.0  | .56 | .56 | 95        | 43       |
| 8" x 3"     | T-F-180130  | 9.0  | .62 | .38 | 140       | 64       |
| 8" x 4"     | T-F-180140  | 9.0  | .62 | .50 | 140       | 64       |
| 8" x 6"     | T-F-180160  | 9.0  | .62 | .56 | 145       | 66       |
| 8"          | T-F-180     | 9.0  | .62 | .62 | 155       | 70       |
| 10" x 3"    | T-F-200130  | 11.0 | .75 | .38 | 200       | 91       |
| 10" x 4"    | T-F-200140  | 11.0 | .75 | .50 | 205       | 93       |
| 10" x 6"    | T-F-200160  | 11.0 | .75 | .56 | 215       | 98       |
| 10" x 8"    | T-F-200180  | 11.0 | .75 | .62 | 225       | 102      |
| 10"         | T-F-200     | 11.0 | .75 | .75 | 270       | 122      |
| 12" x 4"    | T-F-220140  | 12.0 | .81 | .50 | 290       | 132      |
| 12" x 6"    | T-F-220160  | 12.0 | .81 | .56 | 295       | 134      |
| 12" x 8"    | T-F-220180  | 12.0 | .81 | .62 | 310       | 141      |
| 12" x 10"   | T-F-220200  | 12.0 | .81 | .75 | 360       | 163      |
| 12"         | T-F-220     | 12.0 | .81 | .81 | 385       | 175      |
| 14"         | T-F-240     | 14.0 | .66 | .66 | 435       | 197      |
| 16"         | T-F-260     | 15.0 | .70 | .70 | 550       | 249      |
| 18"         | T-F-280     | 16.5 | .75 | .75 | 665       | 302      |
| 20"         | T-F-300     | 18.0 | .80 | .80 | 855       | 388      |
| 24"         | T-F-340     | 22.0 | .89 | .89 | 1330      | 603      |

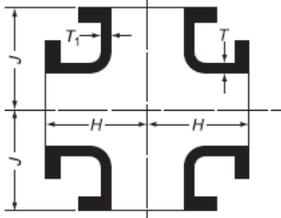
Dimensions in inches.

TEES

Sizes up to 48" available upon request.

CROSS  
TEES

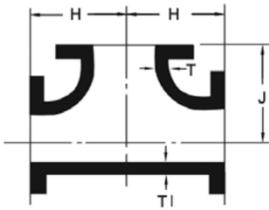
## Cross



| SIZE    | PART NUMBER    | H    | J    | T   | T1  | Wt. (Lbs) | Wt. (Kg) |
|---------|----------------|------|------|-----|-----|-----------|----------|
| 2"      | CROSS-F-120    | 4.5  | 4.5  | .31 | .31 | 30        | 14       |
| 2 1/2"  | CROSS-F-125    | 5.0  | 5.0  | .31 | .31 | 39        | 18       |
| 3"      | CROSS-F-130    | 5.5  | 5.5  | .38 | .31 | 50        | 23       |
| 4"      | CROSS-F-140    | 6.5  | 6.5  | .50 | .50 | 80        | 36       |
| 5"      | CROSS-F-150    | 7.5  | 7.5  | .50 | .50 | 105       | 48       |
| 6" x 4" | CROSS-F-160140 | 8.0  | 8.0  | .56 | .50 | 110       | 50       |
| 6"      | CROSS-F-160    | 8.0  | 8.0  | .56 | .56 | 120       | 54       |
| 8" x 6" | CROSS-F-180160 | 9.0  | 9.0  | .62 | .56 | 165       | 75       |
| 8"      | CROSS-F-180    | 9.0  | 9.0  | .62 | .62 | 195       | 88       |
| 10"     | CROSS-F-200    | 11.0 | 11.0 | .75 | .75 | 330       | 150      |
| 12"     | CROSS-F-220    | 12.0 | 12.0 | .81 | .81 | 460       | 209      |
| 14"     | CROSS-F-240    | 14.0 | 14.0 | .66 | .66 | 595       | 270      |
| 16"     | CROSS-F-260    | 15.0 | 15.0 | .70 | .70 | 755       | 342      |
| 18"     | CROSS-F-280    | 16.5 | 16.5 | .75 | .75 | 915       | 415      |
| 20"     | CROSS-F-300    | 18.0 | 18.0 | .80 | .80 | 1175      | 533      |
| 24"     | CROSS-F-340    | 22.0 | 22.0 | .89 | .89 | 1850      | 839      |

Dimensions in inches.

## Bullhead Tees

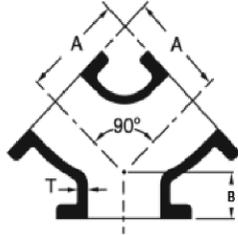


| SIZE            | PART NUMBER       | H    | J    | T   | T1  | Wt. (Lbs) | Wt. (Kg) |
|-----------------|-------------------|------|------|-----|-----|-----------|----------|
| 4" x 4" x 6"    | BULLT-F-140140160 | 8.0  | 8.0  | .50 | .56 | 88        | 40       |
| 6" x 6" x 8"    | BULLT-F-160160180 | 9.0  | 9.0  | .56 | .62 | 142       | 64       |
| 8" x 8" x 10"   | BULLT-F-180180200 | 11.0 | 11.0 | .62 | .75 | 240       | 109      |
| 10" x 10" x 12" | BULLT-F-200200220 | 12.0 | 12.0 | .75 | .81 | 340       | 154      |

Dimensions in inches.

Sizes up to 48" available upon request.

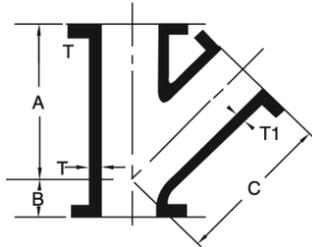
## True Wyes



| SIZE | PART NUMBER | A   | B   | T   | Wt. (Lbs) | Wt. (Kg) |
|------|-------------|-----|-----|-----|-----------|----------|
| 4"   | Y-F-140     | 6.5 | 3.0 | .50 | 50        | 23       |
| 6"   | Y-F-160     | 8.0 | 3.5 | .56 | 80        | 36       |
| 8"   | Y-F-180     | 9.0 | 4.5 | .62 | 125       | 57       |

Dimensions in inches.

## 45° Lateral Wyes

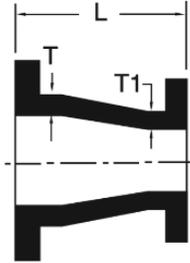


| SIZE      | PART NUMBER | A    | B   | C    | T   | Wt. (Lbs) | Wt. (Kg) |
|-----------|-------------|------|-----|------|-----|-----------|----------|
| 3"        | LY-F-130    | 10.0 | 3.0 | 10.0 | .38 | 45        | 20       |
| 4" x 3"   | LY-F-140130 | 12.0 | 3.0 | 12.0 | .52 | 65        | 29       |
| 4"        | LY-F-140    | 12.0 | 3.0 | 12.0 | .50 | 75        | 34       |
| 6" x 3"   | LY-F-160130 | 14.5 | 3.0 | 12.0 | .55 | 100       | 45       |
| 6" x 4"   | LY-F-160140 | 14.5 | 3.5 | 14.5 | .56 | 105       | 48       |
| 6"        | LY-F-160    | 14.5 | 3.5 | 14.5 | .56 | 120       | 54       |
| 8" x 6"   | LY-F-180160 | 17.5 | 4.5 | 17.5 | .62 | 175       | 79       |
| 8"        | LY-F-180    | 17.5 | 4.5 | 17.5 | .62 | 200       | 91       |
| 10" x 6"  | LY-F-200160 | 20.5 | 5.0 | 20.5 | .68 | 270       | 122      |
| 10" x 8"  | LY-F-200180 | 20.5 | 5.0 | 20.5 | .68 | 295       | 134      |
| 10"       | LY-F-200    | 20.5 | 5.0 | 20.5 | .75 | 335       | 152      |
| 12" x 6"  | LY-F-220160 | 24.5 | 5.5 | 24.5 | .75 | 395       | 179      |
| 12" x 8"  | LY-F-220180 | 24.5 | 5.5 | 24.5 | .75 | 420       | 191      |
| 12" x 10" | LY-F-220200 | 24.5 | 5.5 | 24.5 | .75 | 455       | 206      |
| 12"       | LY-F-220    | 24.5 | 5.5 | 24.5 | .81 | 515       | 234      |

Dimensions in inches.

Sizes up to 48" available upon request.

## Concentric Reducers



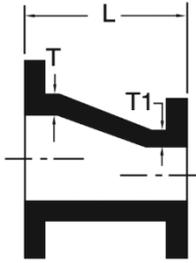
CONCENTRIC

Sizes up to 48" available upon request.

Dimensions in inches.

| SIZE        | PART NUMBER | L   | T   | T1  | Wt. (Lbs) | Wt. (Kg) |
|-------------|-------------|-----|-----|-----|-----------|----------|
| 2" x 2 1/2" | CR-F-120125 | 5.5 | .31 | .30 | 12        | 5        |
| 2 1/2" x 2" | CR-F-125120 | 5.5 | .31 | .31 | 14        | 6        |
| 3" x 1 1/2" | CR-F-130115 | 6   | .38 | .30 | 15        | 7        |
| 3" x 2"     | CR-F-130120 | 6   | .38 | .31 | 16        | 7        |
| 3" x 2 1/2" | CR-F-130125 | 6   | .38 | .31 | 20        | 9        |
| 4" x 2"     | CR-F-140120 | 7   | .50 | .31 | 25        | 11       |
| 4" x 2 1/2" | CR-F-140125 | 7   | .50 | .31 | 28        | 13       |
| 4" x 3"     | CR-F-140130 | 7   | .50 | .38 | 30        | 14       |
| 5" x 2 1/2" | CR-F-150125 | 8   | .50 | .31 | 31        | 14       |
| 5" x 3"     | CR-F-150130 | 8   | .50 | .38 | 32        | 15       |
| 5" x 4"     | CR-F-150140 | 8   | .50 | .50 | 39        | 18       |
| 6" x 2"     | CR-F-160120 | 9   | .56 | .31 | 35        | 16       |
| 6" x 2 1/2" | CR-F-160125 | 9   | .56 | .31 | 38        | 17       |
| 6" x 3"     | CR-F-160130 | 9   | .56 | .38 | 40        | 18       |
| 6" x 4"     | CR-F-160140 | 9   | .56 | .50 | 45        | 20       |
| 6" x 5"     | CR-F-160150 | 9   | .56 | .50 | 50        | 23       |
| 8" x 3"     | CR-F-180130 | 11  | .62 | .38 | 57        | 26       |
| 8" x 4"     | CR-F-180140 | 11  | .62 | .50 | 65        | 29       |
| 8" x 5"     | CR-F-180150 | 11  | .62 | .50 | 70        | 32       |
| 8" x 6"     | CR-F-180160 | 11  | .62 | .56 | 75        | 34       |
| 10" x 4"    | CR-F-200140 | 12  | .75 | .50 | 85        | 39       |
| 10" x 5"    | CR-F-200150 | 12  | .75 | .50 | 88        | 40       |
| 10" x 6"    | CR-F-200160 | 12  | .75 | .56 | 90        | 41       |
| 10" x 8"    | CR-F-200180 | 12  | .75 | .62 | 110       | 50       |
| 12" x 4"    | CR-F-220140 | 14  | .81 | .50 | 120       | 54       |
| 12" x 6"    | CR-F-220160 | 14  | .81 | .56 | 130       | 59       |
| 12" x 8"    | CR-F-220180 | 14  | .81 | .62 | 145       | 66       |
| 12" x 10"   | CR-F-220200 | 14  | .81 | .75 | 170       | 77       |
| 14" x 6"    | CR-F-240160 | 16  | .66 | .55 | 155       | 70       |
| 14" x 8"    | CR-F-240180 | 16  | .66 | .60 | 175       | 79       |
| 14" x 10"   | CR-F-240200 | 16  | .66 | .68 | 190       | 86       |
| 14" x 12"   | CR-F-240220 | 16  | .66 | .75 | 220       | 100      |
| 16" x 6"    | CR-F-260160 | 18  | .70 | .55 | 190       | 86       |
| 16" x 8"    | CR-F-260180 | 18  | .70 | .60 | 210       | 95       |
| 16" x 10"   | CR-F-260200 | 18  | .70 | .68 | 235       | 107      |
| 16" x 12"   | CR-F-260220 | 18  | .70 | .75 | 265       | 120      |
| 16" x 14"   | CR-F-260240 | 18  | .70 | .66 | 280       | 127      |
| 18" x 8"    | CR-F-280180 | 19  | .75 | .60 | 240       | 109      |
| 18" x 10"   | CR-F-280200 | 19  | .75 | .68 | 265       | 120      |
| 18" x 12"   | CR-F-280220 | 19  | .75 | .75 | 295       | 134      |
| 18" x 14"   | CR-F-280240 | 19  | .75 | .66 | 310       | 141      |
| 18" x 16"   | CR-F-280260 | 19  | .75 | .70 | 340       | 154      |
| 20" x 10"   | CR-F-300200 | 20  | .80 | .68 | 310       | 141      |
| 20" x 12"   | CR-F-300220 | 20  | .80 | .75 | 345       | 156      |
| 20" x 14"   | CR-F-300240 | 20  | .80 | .66 | 355       | 161      |
| 20" x 16"   | CR-F-300260 | 20  | .80 | .70 | 390       | 177      |
| 20" x 18"   | CR-F-300280 | 20  | .80 | .75 | 410       | 186      |
| 24" x 12"   | CR-F-340220 | 24  | .89 | .75 | 480       | 218      |
| 24" x 14"   | CR-F-340240 | 24  | .89 | .66 | 490       | 222      |
| 24" x 16"   | CR-F-340260 | 24  | .89 | .70 | 525       | 238      |
| 24" x 18"   | CR-F-320280 | 24  | .89 | .75 | 550       | 249      |
| 24" x 20"   | CR-F-340300 | 24  | .89 | .80 | 590       | 268      |

## Eccentric Reducers



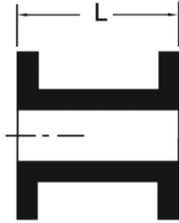
ECCENTRIC

| SIZE        | PART NUMBER | L  | T   | T1  | Wt. (Lbs) | Wt. (Kg) |
|-------------|-------------|----|-----|-----|-----------|----------|
| 3" x 2"     | ER-F-130120 | 6  | .38 | .31 | 16        | 7        |
| 3" x 2 1/2" | ER-F-130125 | 6  | .38 | .31 | 20        | 9        |
| 4" x 2"     | ER-F-140120 | 7  | .50 | .31 | 25        | 11       |
| 4" x 2 1/2" | ER-F-140125 | 7  | .50 | .31 | 28        | 13       |
| 4" x 3"     | ER-F-140130 | 7  | .50 | .38 | 30        | 14       |
| 5" x 2 1/2" | ER-F-150125 | 8  | .50 | .31 | 31        | 14       |
| 5" x 3"     | ER-F-150130 | 8  | .50 | .38 | 32        | 15       |
| 5" x 4"     | ER-F-150140 | 8  | .50 | .50 | 39        | 18       |
| 6" x 2"     | ER-F-160120 | 9  | .56 | .31 | 35        | 16       |
| 6" x 2 1/2" | ER-F-160125 | 9  | .56 | .31 | 38        | 17       |
| 6" x 3"     | ER-F-160130 | 9  | .56 | .38 | 40        | 18       |
| 6" x 4"     | ER-F-160140 | 9  | .56 | .50 | 45        | 20       |
| 6" x 5"     | ER-F-160150 | 9  | .56 | .50 | 50        | 23       |
| 8" x 3"     | ER-F-180130 | 11 | .62 | .38 | 57        | 26       |
| 8" x 4"     | ER-F-180140 | 11 | .62 | .50 | 65        | 29       |
| 8" x 5"     | ER-F-180150 | 11 | .62 | .50 | 70        | 32       |
| 8" x 6"     | ER-F-180160 | 11 | .62 | .56 | 75        | 34       |
| 10" x 4"    | ER-F-200140 | 12 | .75 | .50 | 85        | 39       |
| 10" x 5"    | ER-F-200150 | 12 | .75 | .50 | 88        | 40       |
| 10" x 6"    | ER-F-200160 | 12 | .75 | .56 | 90        | 41       |
| 10" x 8"    | ER-F-200180 | 12 | .75 | .62 | 110       | 50       |
| 12" x 4"    | ER-F-220140 | 14 | .81 | .50 | 120       | 54       |
| 12" x 6"    | ER-F-220160 | 14 | .81 | .56 | 130       | 59       |
| 12" x 8"    | ER-F-220180 | 14 | .81 | .62 | 145       | 66       |
| 12" x 10"   | ER-F-220200 | 14 | .81 | .75 | 170       | 77       |
| 14" x 6"    | ER-F-240160 | 16 | .66 | .55 | 155       | 70       |
| 14" x 8"    | ER-F-240180 | 16 | .66 | .60 | 175       | 79       |
| 14" x 10"   | ER-F-240200 | 16 | .66 | .68 | 190       | 86       |
| 14" x 12"   | ER-F-240220 | 16 | .66 | .75 | 220       | 100      |
| 16" x 6"    | ER-F-260160 | 18 | .70 | .55 | 190       | 86       |
| 16" x 8"    | ER-F-260180 | 18 | .70 | .60 | 210       | 95       |
| 16" x 10"   | ER-F-260200 | 18 | .70 | .68 | 235       | 107      |
| 16" x 12"   | ER-F-260220 | 18 | .70 | .75 | 265       | 120      |
| 16" x 14"   | ER-F-260240 | 18 | .70 | .66 | 280       | 127      |
| 18" x 8"    | ER-F-280180 | 19 | .75 | .60 | 240       | 109      |
| 18" x 10"   | ER-F-280200 | 19 | .75 | .68 | 265       | 120      |
| 18" x 12"   | ER-F-280220 | 19 | .75 | .75 | 295       | 134      |
| 18" x 14"   | ER-F-280240 | 19 | .75 | .66 | 310       | 141      |
| 18" x 16"   | ER-F-280260 | 19 | .75 | .70 | 340       | 154      |
| 20" x 10"   | ER-F-300200 | 20 | .80 | .68 | 310       | 141      |
| 20" x 12"   | ER-F-300220 | 20 | .80 | .75 | 345       | 156      |
| 20" x 14"   | ER-F-300240 | 20 | .80 | .66 | 355       | 161      |
| 20" x 16"   | ER-F-300260 | 20 | .80 | .70 | 390       | 177      |
| 20" x 18"   | ER-F-300280 | 20 | .80 | .75 | 410       | 186      |
| 24" x 12"   | ER-F-340220 | 24 | .89 | .75 | 480       | 218      |
| 24" x 14"   | ER-F-340240 | 24 | .89 | .66 | 490       | 222      |
| 24" x 16"   | ER-F-340260 | 24 | .89 | .70 | 525       | 238      |
| 24" x 18"   | ER-F-320280 | 24 | .89 | .75 | 550       | 249      |
| 24" x 20"   | ER-F-340300 | 24 | .89 | .80 | 590       | 268      |

Dimensions in inches.

Sizes up to 48" available upon request.

## Flange Pipe



| SIZE | PART NUMBER | L  | Wt. (Lbs) | Wt. (Kg) |
|------|-------------|----|-----------|----------|
| 4"   | FP-140-6    | 6  | 29.00     | 13.15    |
| 4"   | FP-140-12   | 12 | 35.92     | 16.29    |
| 4"   | FP-140-18   | 18 | 42.87     | 19.44    |
| 4"   | FP-140-24   | 24 | 49.79     | 22.58    |
| 6"   | FP-160-6    | 6  | 41.10     | 18.64    |
| 6"   | FP-160-12   | 12 | 52.19     | 23.67    |
| 6"   | FP-160-18   | 18 | 63.28     | 28.70    |
| 6"   | FP-160-24   | 24 | 74.37     | 33.73    |
| 8"   | FP-180-6    | 6  | 110.89    | 50.29    |
| 8"   | FP-180-12   | 12 | 127.16    | 57.67    |
| 8"   | FP-180-18   | 18 | 141.65    | 64.25    |
| 8"   | FP-180-24   | 24 | 157.04    | 71.23    |

Dimensions in inches.

## FULL Face Flange Gasket

Non-Asbestos

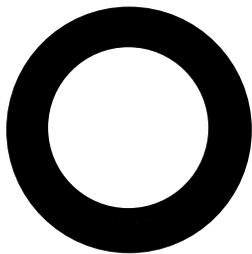


| SIZE   | PART NUMBER  | OD    | THICKNESS | BOLT CIRCLE | BOX Qty |
|--------|--------------|-------|-----------|-------------|---------|
| 1"     | FULLG-NA-100 | 4.25  | 1/8       | 3.12        | 25      |
| 1 1/4" | FULLG-NA-105 | 4.62  | 1/8       | 3.50        | 25      |
| 1 1/2" | FULLG-NA-115 | 5.00  | 1/8       | 3.88        | 25      |
| 2"     | FULLG-NA-120 | 6.00  | 1/8       | 4.75        | 25      |
| 2 1/2" | FULLG-NA-125 | 7.00  | 1/8       | 5.50        | 25      |
| 3"     | FULLG-NA-130 | 7.50  | 1/8       | 6.00        | 25      |
| 4"     | FULLG-NA-140 | 9.00  | 1/8       | 7.50        | 25      |
| 5"     | FULLG-NA-150 | 10.00 | 1/8       | 8.50        | 25      |
| 6"     | FULLG-NA-160 | 11.00 | 1/8       | 9.50        | 25      |
| 8"     | FULLG-NA-180 | 13.50 | 1/8       | 11.75       | 25      |
| 10"    | FULLG-NA-200 | 16.00 | 1/8       | 14.25       | 25      |
| 12"    | FULLG-NA-220 | 19.00 | 1/8       | 17.00       | 10      |
| 14"    | FULLG-NA-240 | 21.00 | 1/8       | 18.75       | 10      |
| 16"    | FULLG-NA-260 | 23.50 | 1/8       | 21.25       | 10      |
| 18"    | FULLG-NA-280 | 25.00 | 1/8       | 22.75       | 10      |
| 20"    | FULLG-NA-300 | 27.50 | 1/8       | 25.00       | 10      |
| 24"    | FULLG-NA-340 | 32.00 | 1/8       | 29.50       | 10      |

Dimensions in inches.

## Ring Type Flange Gasket

Non-Asbestos

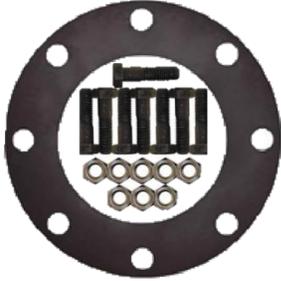


| SIZE   | PART NUMBER  | OD    | THICKNESS | BOX QUANTITY |
|--------|--------------|-------|-----------|--------------|
| 1"     | RINGG-NA-100 | 2.63  | 1/8       | 25           |
| 1 1/4" | RINGG-NA-105 | 3.00  | 1/8       | 25           |
| 1 1/2" | RINGG-NA-115 | 3.38  | 1/8       | 25           |
| 2"     | RINGG-NA-120 | 3.90  | 1/8       | 25           |
| 2 1/2" | RINGG-NA-125 | 4.70  | 1/8       | 25           |
| 3"     | RINGG-NA-130 | 5.15  | 1/8       | 25           |
| 4"     | RINGG-NA-140 | 6.30  | 1/8       | 25           |
| 5"     | RINGG-NA-150 | 7.60  | 1/8       | 25           |
| 6"     | RINGG-NA-160 | 8.50  | 1/8       | 25           |
| 8"     | RINGG-NA-180 | 10.60 | 1/8       | 25           |
| 10"    | RINGG-NA-200 | 12.80 | 1/8       | 25           |
| 12"    | RINGG-NA-220 | 14.75 | 1/8       | 10           |
| 14"    | RINGG-NA-240 | 17.15 | 1/8       | 10           |
| 16"    | RINGG-NA-260 | 19.90 | 1/8       | 10           |
| 18"    | RINGG-NA-280 | 21.15 | 1/8       | 10           |
| 20"    | RINGG-NA-300 | 23.60 | 1/8       | 10           |
| 24"    | RINGG-NA-340 | 27.95 | 1/8       | 10           |

Dimensions in inches.

## Full Face Flange Gasket Pack

Gasket, Bolts and Nuts

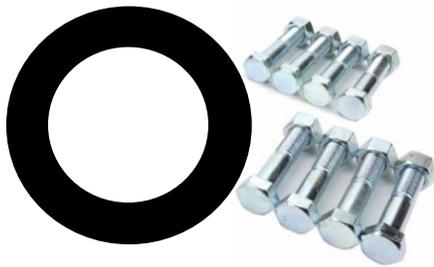


| CLASS 125/150 FLANGE SIZE | 1/8" FULL FACE HIGH SEAL |
|---------------------------|--------------------------|
| 1 1/4"                    | FULLG-PACK-105           |
| 1 1/2"                    | FULLG-PACK-115           |
| 2"                        | FULLG-PACK-120           |
| 2 1/2"                    | FULLG-PACK-125           |
| 3"                        | FULLG-PACK-130           |
| 4"                        | FULLG-PACK-140           |
| 5"                        | FULLG-PACK-150           |
| 6"                        | FULLG-PACK-160           |
| 8"                        | FULLG-PACK-180           |
| 10"                       | FULLG-PACK-200           |
| 12"                       | FULLG-PACK-220           |
| 14"                       | FULLG-PACK-240           |
| 16"                       | FULLG-PACK-260           |
| 18"                       | FULLG-PACK-280           |
| 20"                       | FULLG-PACK-300           |
| 24"                       | FULLG-PACK-340           |

*Dimensions in inches.*

## Ring Type Flange Gasket Pack

Gasket, Bolts and Nuts



| CLASS 125/150 FLANGE SIZE | 1/8" RING TYPE SEAL-TITE |
|---------------------------|--------------------------|
| 1 1/4"                    | RINGG-PACK-105           |
| 1 1/2"                    | RINGG-PACK-115           |
| 2"                        | RINGG-PACK-120           |
| 2 1/2"                    | RINGG-PACK-125           |
| 3"                        | RINGG-PACK-130           |
| 4"                        | RINGG-PACK-140           |
| 5"                        | RINGG-PACK-150           |
| 6"                        | RINGG-PACK-160           |
| 8"                        | RINGG-PACK-180           |
| 10"                       | RINGG-PACK-200           |
| 12"                       | RINGG-PACK-220           |
| 14"                       | RINGG-PACK-240           |
| 16"                       | RINGG-PACK-260           |
| 18"                       | RINGG-PACK-280           |
| 20"                       | RINGG-PACK-300           |
| 24"                       | RINGG-PACK-340           |

*Dimensions in inches.*

GASKETS