

FLANGED FITTINGS

*Elbows
Tees
Crosses
Wyes
Reducers
Flanges
Converters
Gaskets
Nuts & Bolts*

**AWWA C110 Class 250
3"~24"**

**ANSI B16.1 Class 125
2"~12"**



UNITED Water 
Products

UNITED BRAND FITTINGS

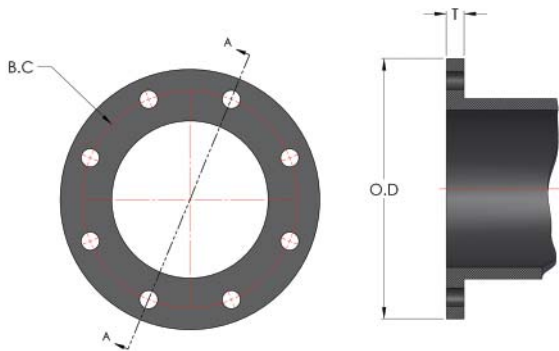
Our dedication to the mechanical piping industry has given us the opportunity to provide you with a quality comprehensive line of flanged fittings exceeding competitive brands.

Our flanged fitting series are available in 2"~24" sizes in a variety of elbows, tees, crosses, laterals, reducers, and blind flanges. All are manufactured in strict accordance with ANSI B16.1 (2"~12") and AWWA C110 Class 250 (3"~24")

Material: Ductile Cast Iron, ASTM A536, Grey Cast Iron, ASTM A-126

Flange: Faced and drilled in accordance with ANSI B16.1 Class 125

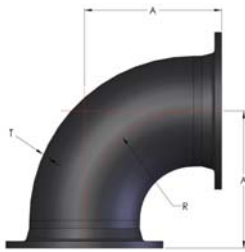
FLANGE DETAILS - Class 125



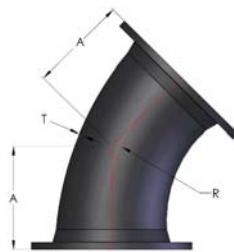
| Size | O.D. | B.C. | T | Bolt Hole Dia. | Bolt Dia. & Length | No. of Bolts |
|-------|-------|-------|---------|----------------|--------------------|--------------|
| 2 | 6.00 | 4.75 | 5/8 | 3/4 | 5/8 x 2-1/2 | 4 |
| 2-1/2 | 7.00 | 5.0 | 11/16 | 3/4 | 5/8 x 2-1/2 | 4 |
| 3 | 7.50 | 6.00 | 3/4 | 3/4 | 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 |

All dimensional data in inches and lbs.

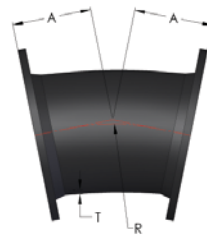
ELBOWS



SERIES 10
90°



SERIES 11
45°



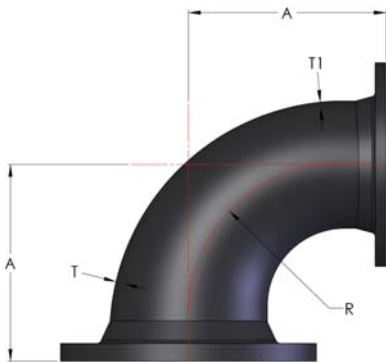
SERIES 12
22 1/2°



SERIES 13
11 1/4°

| Size | 90° Elbow | | | | 45° Elbow | | | | 22 1/2° Elbow | | | | 11 1/4° Elbow | | | | T | |
|-------|-------------|------|------|------|-------------|------|-------|------|---------------|-----|-------|------|---------------|-----|-------|------|---|-----|
| | Part No. | A | R | Wgt. | Part No. | A | R | Wgt. | Part No. | A | R | Wgt. | Part No. | A | R | Wgt. | | |
| 2 | 10F-0202- | 4.5 | 3.0 | 14 | 11F-0202- | 2.5 | 2.4 | 12 | - | - | - | - | - | - | - | - | - | .31 |
| 2-1/2 | 10F-025025- | 5.0 | 3.5 | 19 | 11F-025025- | 3.0 | 3.6 | 17 | - | - | - | - | - | - | - | - | - | .31 |
| 3 | 10F-0303- | 5.5 | 4.0 | 25 | 11F-0303- | 3.0 | 3.6 | 20 | 12F-0303- | 3.0 | 7.6 | 20 | 13F-0303- | 3.0 | 15.25 | 20 | - | .38 |
| 4 | 10F-0404- | 6.5 | 4.5 | 45 | 11F-0404- | 4.0 | 4.8 | 40 | 12F-0404- | 4.0 | 10.06 | 40 | 13F-0404- | 4.0 | 20.31 | 40 | - | .50 |
| 5 | 10F-0505- | 7.5 | 5.5 | 52 | 11F-0505- | 4.5 | 6.0 | 45 | - | - | - | - | - | - | - | - | - | .50 |
| 6 | 10F-0606- | 8.0 | 6.0 | 65 | 11F-0606- | 5.0 | 7.3 | 55 | 12F-0606- | 5.0 | 15.06 | 55 | 13F-0606- | 5.0 | 30.50 | 55 | - | .56 |
| 8 | 10F-0808- | 9.0 | 7.0 | 105 | 11F-0808- | 5.5 | 8.4 | 90 | 12F-0808- | 5.5 | 17.62 | 90 | 13F-0808- | 5.5 | 35.50 | 90 | - | .62 |
| 10 | 10F-1010- | 11.0 | 9.0 | 165 | 11F-1010- | 6.5 | 10.9 | 130 | 12F-1010- | 6.5 | 22.62 | 135 | 13F-1010- | 6.5 | 45.69 | 135 | - | .75 |
| 12 | 10F-1212- | 12.0 | 10.0 | 235 | 11F-1212- | 7.5 | 13.3 | 195 | 12F-1212- | 7.5 | 27.62 | 205 | 13F-1212- | 7.5 | 55.81 | 205 | - | .81 |
| 14 | 10F-1414- | 14.0 | 11.5 | 290 | 11F-1414- | 7.5 | 12.06 | 220 | - | - | - | - | - | - | - | - | - | .66 |
| 16 | 10F-1616- | 15.0 | 12.5 | 370 | 11F-1616- | 8.0 | 13.25 | 280 | - | - | - | - | - | - | - | - | - | .70 |
| 18 | 10F-1818- | 16.5 | 14.0 | 450 | 11F-1818- | 8.5 | 14.50 | 325 | - | - | - | - | - | - | - | - | - | .75 |
| 20 | 10F-2020- | 18.0 | 15.5 | 580 | 11F-2020- | 9.5 | 16.88 | 430 | - | - | - | - | - | - | - | - | - | .80 |
| 24 | 10F-2424- | 22.0 | 18.5 | 900 | 11F-2424- | 11.0 | 18.12 | 630 | - | - | - | - | - | - | - | - | - | .89 |

90° REDUCING ELBOW



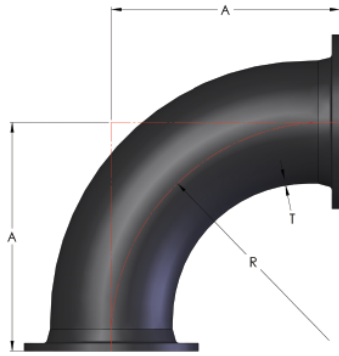
SERIES 10R

| Size | Part No. | A | R | T | T1 | Weight |
|-----------|------------|------|------|-----|-----|--------|
| 3 x 2 | 10F-0302- | 5.5 | 4.0 | .38 | .31 | 19 |
| 3 x 2-1/2 | 10F-03025- | 5.5 | 4.0 | .38 | .31 | 22 |
| 4 x 2 | 10F-0402- | 6.5 | 4.0 | .50 | .31 | 29 |
| 4 x 2-1/2 | 10F-04025- | 6.5 | 4.0 | .50 | .31 | 31 |
| 4 x 3 | 10F-0403- | 6.5 | 4.5 | .50 | .38 | 33 |
| 5 x 3 | 10F-0503- | 7.5 | 5.0 | .50 | .50 | 44 |
| 5 x 4 | 10F-0504- | 7.5 | 5.0 | .50 | .50 | 48 |
| 6 x 3 | 10F-0603- | 8.0 | 6.0 | .56 | .38 | 45 |
| 6 x 4 | 10F-0604- | 8.0 | 6.0 | .56 | .50 | 55 |
| 6 x 5 | 10F-0605- | 8.0 | 6.0 | .56 | .50 | 65 |
| 8 x 4 | 10F-0804- | 9.0 | 7.0 | .62 | .50 | 75 |
| 8 x 5 | 10F-0805- | 9.0 | 7.0 | .62 | .56 | 80 |
| 8 x 6 | 10F-0806- | 9.0 | 7.0 | .62 | .56 | 85 |
| 10 x 4 | 10F-1004- | 11.0 | 9.0 | .75 | .50 | 110 |
| 10 x 6 | 10F-1006- | 11.0 | 9.0 | .75 | .56 | 135 |
| 10 x 8 | 10F-1008- | 11.0 | 9.0 | .75 | .62 | 150 |
| 12 x 4 | 10F-1204- | 12.0 | 10.0 | .81 | .50 | 140 |
| 12 x 6 | 10F-1206- | 12.0 | 10.0 | .81 | .56 | 160 |
| 12 x 8 | 10F-1208- | 12.0 | 10.0 | .81 | .62 | 180 |
| 12 x 10 | 10F-1210- | 12.0 | 10.0 | .81 | .75 | 210 |
| 14 x 10 | 10F-1410- | 14.0 | 11.5 | .66 | .68 | 240 |
| 14 x 12 | 10F-1412- | 14.0 | 11.5 | .66 | .75 | 270 |
| 16 x 10 | 10F-1610- | 15.0 | 12.5 | .70 | .68 | 285 |
| 16 x 12 | 10F-1612- | 15.0 | 12.5 | .70 | .75 | 310 |
| 16 x 14 | 10F-1614- | 15.0 | 12.5 | .70 | .66 | 330 |

Add suffix "C" for Grey Cast Iron - "D" for Ductile Cast Iron

Larger sizes thru 48" available upon request.

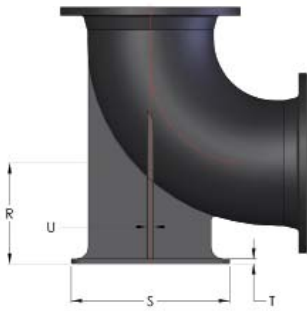
90° LONG RADIUS ELBOW



SERIES 15

| Size | Part No. | B | R | T | Weight |
|-------|-------------|------|------|-----|--------|
| 2 | 15F-0202- | 6.5 | 5.0 | .31 | 16 |
| 2-1/2 | 15F-025025- | 7.0 | 5.5 | .31 | 23 |
| 3 | 15F-0303- | 7.5 | 6.0 | .38 | 28 |
| 4 x 3 | 15F-0403- | 9.0 | 7.0 | .48 | 38 |
| 4 | 15F-0404- | 9.0 | 7.0 | .50 | 48 |
| 6 x 4 | 15F-0604- | 11.5 | 9.5 | .55 | 70 |
| 6 | 15F-0606- | 11.5 | 9.5 | .56 | 85 |
| 8 x 6 | 15F-0806- | 14.0 | 12.0 | .60 | 116 |
| 8 | 15F-0808- | 14.0 | 12.0 | .62 | 145 |
| 10 | 15F-1010- | 16.5 | 14.0 | .75 | 230 |
| 12 | 15F-1212- | 19.0 | 17.0 | .81 | 350 |

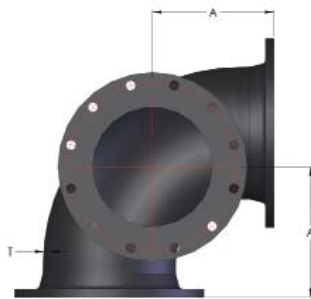
90° BASE ELBOW



SERIES 16

| Size | Part No. | R | S (Dia.) | T | U | Weight |
|------|-----------|-------|----------|-----|-----|--------|
| 3 | 16F-0303- | 4.0 | 5.0 | .28 | .50 | 36 |
| 4 | 16F-0404- | 5.5 | 6.0 | .62 | .50 | 55 |
| 6 | 16F-0606- | 7.0 | 7.0 | .69 | .62 | 85 |
| 8 | 16F-0808- | 8.38 | 9.0 | .94 | .88 | 145 |
| 10 | 16F-1010- | 9.75 | 9.0 | .94 | .88 | 210 |
| 12 | 16F-1212- | 11.25 | 11.0 | 1.0 | 1.0 | 300 |
| 14 | 16F-1414- | 12.50 | 11.0 | 1.0 | 1.0 | 360 |
| 16 | 16F-1616- | 13.75 | 11.0 | 1.0 | 1.0 | 445 |

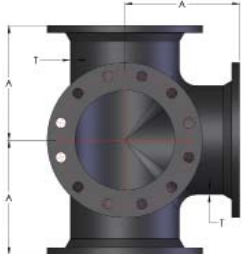
SIDE OUTLET 90° ELBOW



SERIES 18

| Size | Part No. | A | R | T | Weight |
|------|-----------|------|------|-----|--------|
| 4 | 18F-0404- | 6.5 | 6.5 | .50 | 60 |
| 6 | 18F-0606- | 8.0 | 8.0 | .56 | 95 |
| 8 | 18F-0808- | 9.0 | 9.0 | .62 | 150 |
| 10 | 18F-1010- | 11.0 | 11.0 | .75 | 235 |
| 12 | 18F-1212- | 12.0 | 12.0 | .81 | 335 |

SIDE OUTLET TEE



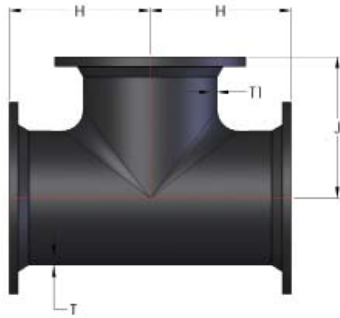
SERIES 19

| Size | Part No. | A | T | Weight |
|------|-----------|------|-----|--------|
| 4 | 19F-0404- | 6.5 | .50 | 80 |
| 6 | 19F-0606- | 8.0 | .56 | 135 |
| 8 | 19F-0808- | 9.0 | .62 | 210 |
| 10 | 19F-1010- | 11.0 | .75 | 330 |
| 12 | 19F-1212- | 12.0 | .81 | 470 |

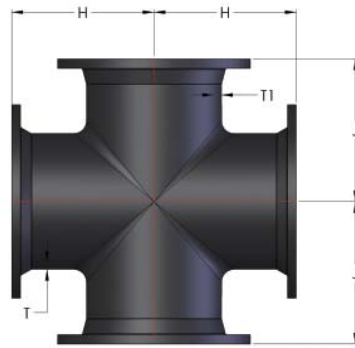
Add suffix "C" for Grey Cast Iron - "D" for Ductile Cast Iron

Larger sizes thru 48" available upon request.

TEES & CROSSES



SERIES 20



SERIES 35

| Size | Part No. | | H | J | T | T1 | Weight | |
|-----------|-------------|-------------|------|------|-----|-----|--------|-------|
| | Tee | Cross | | | | | Tee | Cross |
| 2 | 20F-0202- | 35F-0202- | 4.5 | 4.5 | .31 | .31 | 20 | 30 |
| 2-1/2 | 20F-025025- | 35F-025025- | 5.0 | 5.0 | .31 | .31 | 30 | 39 |
| 3 x 2 | 20F-0302- | - | 5.5 | 5.5 | .38 | .31 | 35 | - |
| 3 x 2-1/2 | 20F-03025- | - | 5.5 | 5.5 | .38 | .31 | 38 | - |
| 3 | 20F-0303- | 35F-0303- | 5.5 | 5.5 | .38 | .31 | 40 | 50 |
| 4 x 2 | 20F-0402- | - | 6.5 | 6.5 | .50 | .31 | 50 | - |
| 4 x 2-1/2 | 20F-04025- | - | 6.5 | 6.5 | .50 | .31 | 55 | - |
| 4 x 3 | 20F-0403- | - | 6.5 | 6.5 | .50 | .38 | 60 | - |
| 4 | 20F-0404- | 35F-0404- | 6.5 | 6.5 | .50 | .50 | 65 | 80 |
| 5 | 20F-0505- | 35F-0505- | 7.5 | 7.5 | .50 | .50 | 85 | 105 |
| 6 x 2 | 20F-0602- | - | 8.0 | 8.0 | .56 | .31 | 86 | - |
| 6 x 3 | 20F-0603- | - | 8.0 | 8.0 | .56 | .38 | 85 | - |
| 6 x 4 | 20F-0604- | 35F-0604- | 8.0 | 8.0 | .56 | .50 | 90 | 110 |
| 6 x 5 | 20F-0605- | - | 8.0 | 8.0 | .56 | .53 | 92 | - |
| 6 | 20F-0606- | 35F-0606- | 8.0 | 8.0 | .56 | .56 | 95 | 120 |
| 8 x 3 | 29F-0803- | - | 9.0 | 9.0 | .62 | .38 | 140 | - |
| 8 x 4 | 20F-0804- | - | 9.0 | 9.0 | .62 | .50 | 140 | - |
| 8 x 6 | 20F-0806- | 35F-0806- | 9.0 | 9.0 | .62 | .56 | 145 | 165 |
| 8 | 20F-0808- | 35F-0808- | 9.0 | 9.0 | .62 | .62 | 155 | 195 |
| 10 x 3 | 20F-1003- | - | 11.0 | 11.0 | .75 | .38 | 200 | - |
| 10 x 4 | 20F-1004- | - | 11.0 | 11.0 | .75 | .50 | 205 | - |
| 10 x 6 | 20F-1006- | - | 11.0 | 11.0 | .75 | .56 | 215 | - |
| 10 x 8 | 20F-1008- | - | 11.0 | 11.0 | .75 | .62 | 225 | - |
| 10 | 20F-1010- | 35F-1010- | 11.0 | 11.0 | .75 | .75 | 270 | 330 |
| 12 x 4 | 20F-1204- | - | 12.0 | 12.0 | .81 | .50 | 290 | - |
| 12 x 6 | 20F-1206- | - | 12.0 | 12.0 | .81 | .56 | 295 | - |
| 12 x 8 | 20F-1208- | - | 12.0 | 12.0 | .81 | .62 | 310 | - |
| 12 x 10 | 20F-1210- | - | 12.0 | 12.0 | .81 | .75 | 360 | - |
| 12 | 20F-1212- | 35F-1212- | 12.0 | 12.0 | .81 | .81 | 385 | 460 |
| 14 | 20F-1414- | 35F-1414- | 14.0 | 14.0 | .66 | .66 | 435 | 595 |
| 16 | 20F-1616- | 35F-1616- | 15.0 | 15.0 | .70 | .70 | 550 | 755 |
| 18 | 20F-1818- | 35F-1818- | 16.5 | 16.5 | .75 | .75 | 665 | 915 |
| 20 | 20F-2020- | 35F-2020- | 18.0 | 18.0 | .80 | .80 | 855 | 1175 |
| 24 | 20F-2424- | 35F-2424- | 22.0 | 22.0 | .89 | .89 | 1330 | 1850 |

REDUCING TEE (on Run and/or Branch)



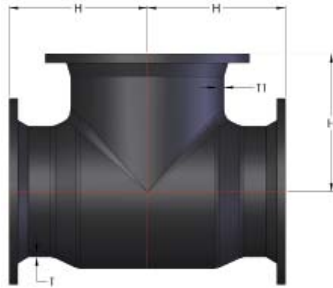
SERIES 26

| Size | Part No. | H | J | T | T1 | Weight |
|--------------|-------------|------|------|-----|-----|--------|
| 4 x 3 x 4 | 26F-0434- | 6.5 | 6.5 | .50 | .38 | 59 |
| 6 x 4 x 4 | 26F-0644- | 8.0 | 8.0 | .56 | .50 | 90 |
| 6 x 4 x 6 | 26F-0646- | 8.0 | 8.0 | .56 | .50 | 95 |
| 8 x 4 x 8 | 26F-0848- | 9.0 | 9.0 | .62 | .50 | 146 |
| 8 x 6 x 4 | 26F-0864- | 9.0 | 9.0 | .62 | .56 | 125 |
| 8 x 6 x 6 | 26F-0866- | 9.0 | 9.0 | .62 | .56 | 145 |
| 8 x 6 x 8 | 26F-0868- | 9.0 | 9.0 | .62 | .56 | 160 |
| 10 x 8 x 8 | 26F-1088- | 11.0 | 11.0 | .75 | .62 | 232 |
| 10 x 8 x 10 | 26F-10810- | 11.0 | 11.0 | .75 | .62 | 262 |
| 12 x 8 x 8 | 26F-1288- | 12.0 | 12.0 | .81 | .62 | 298 |
| 12 x 10 x 10 | 26F-121010- | 12.0 | 12.0 | .81 | .75 | 340 |
| 12 x 10 x 12 | 26F-121012- | 12.0 | 12.0 | .81 | .75 | 365 |

Add suffix "C" for Grey Cast Iron - "D" for Ductile Cast Iron

Larger sizes thru 48" available upon request.

BULLHEAD TEE



SERIES 27

| Size | Part No. | H | J | T | T1 | Weight |
|--------------|-------------|------|------|-----|-----|--------|
| 4 x 4 x 6 | 27F-446- | 8.0 | 8.0 | .50 | .56 | 88 |
| 6 x 6 x 8 | 27F-668- | 9.0 | 9.0 | .56 | .62 | 142 |
| 8 x 8 x 10 | 27F-8810- | 11.0 | 11.0 | .62 | .75 | 240 |
| 10 x 10 x 12 | 27F-101012- | 12.0 | 12.0 | .75 | .81 | 340 |

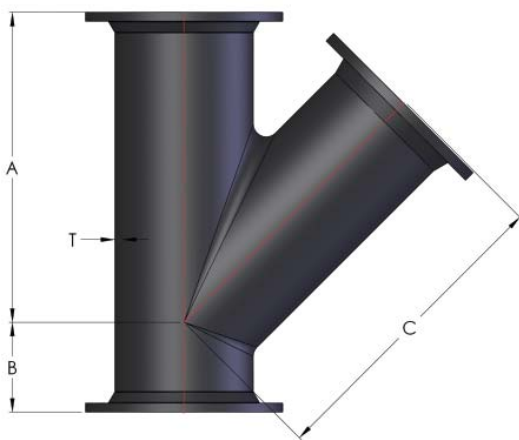
TRUE WYES



SERIES 32

| Size | Part No. | A | B | T | Weight |
|------|-----------|-----|-----|-----|--------|
| 4 | 32F-0404- | 6.5 | 3.0 | .50 | 50 |
| 6 | 32F-0606- | 8.0 | 3.5 | .56 | 80 |
| 8 | 32F-0808- | 9.0 | 4.5 | .62 | 125 |

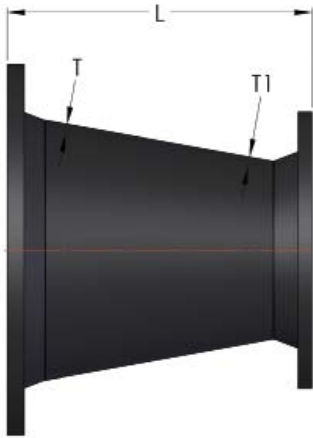
LATERAL WYES



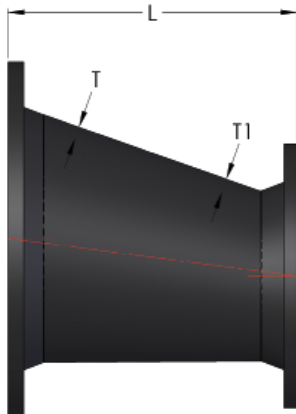
SERIES 30

| Size | Part No. | A | B | C | T | Weight |
|---------|-----------|------|-----|------|-----|--------|
| 3 | 30F-0303- | 10.0 | 3.0 | 10.0 | .38 | 45 |
| 4 x 3 | 30F-0403- | 12.0 | 3.0 | 12.0 | .52 | 65 |
| 4 | 30F-0404- | 12.0 | 3.0 | 12.0 | .50 | 75 |
| 6 x 3 | 30F-0603- | 14.5 | 3.0 | 12.0 | .55 | 100 |
| 6 x 4 | 30F-0604- | 14.5 | 3.5 | 14.5 | .56 | 105 |
| 6 | 30F-0606- | 14.5 | 3.5 | 14.5 | .56 | 120 |
| 8 x 6 | 30F-0806- | 17.5 | 4.5 | 17.5 | .62 | 175 |
| 8 | 30F-0808- | 17.5 | 4.5 | 17.5 | .62 | 200 |
| 10 x 6 | 30F-1006- | 20.5 | 5.0 | 20.5 | .68 | 270 |
| 10 x 8 | 30F-1008- | 20.5 | 5.0 | 20.5 | .68 | 295 |
| 10 | 30F-1010- | 20.5 | 5.0 | 20.5 | .75 | 335 |
| 12 x 6 | 30F-1206- | 24.5 | 5.5 | 24.5 | .75 | 395 |
| 12 x 8 | 30F-1208- | 24.5 | 5.5 | 24.5 | .75 | 420 |
| 12 x 10 | 30F-1210- | 24.5 | 5.5 | 24.5 | .75 | 455 |
| 12 | 30F-1212- | 24.5 | 5.5 | 24.5 | .81 | 515 |

CONCENTRIC & ECCENTRIC REDUCERS



**(CONCENTRIC)
SERIES 50**



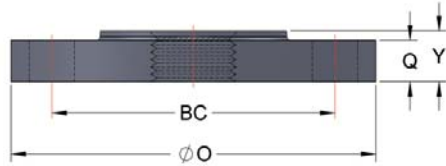
**(ECCENTRIC)
SERIES 51**

| Size | Part No. (Concentric) | Part No. (Eccentric) | L | T | T1 | Weight |
|-----------|--------------------------|-------------------------|-----|-----|-----|--------|
| 2 x 1-1/2 | 50F-02015- | - | 5.5 | .31 | .30 | 12 |
| 2-1/2 x 2 | 50F-02502- | - | 5.5 | .31 | .31 | 14 |
| 3 x 1-1/2 | 50F-03015- | - | 6 | .38 | .30 | 15 |
| 3 x 2 | 50F-0302- | 51F-0302- | 6 | .38 | .31 | 16 |
| 3 x 2-1/2 | 50F-03025- | 51F-03025- | 6 | .38 | .31 | 20 |
| 4 x 2 | 50F-0402- | 51F-0402- | 7 | .50 | .31 | 25 |
| 4 x 2-1/2 | 50F-04025- | 51F-04025- | 7 | .50 | .31 | 28 |
| 4 x 3 | 50F-0403- | 51F-0403- | 7 | .50 | .38 | 30 |
| 5 x 2-1/2 | 50F-05025- | 51F-05025- | 8 | .50 | .31 | 31 |
| 5 x 3 | 50F-0503- | 51F-0503- | 8 | .50 | .38 | 32 |
| 5 x 4 | 50F-0504- | 51F-0504- | 8 | .50 | .50 | 39 |
| 6 x 2 | 50F-0602- | 51F-0602- | 9 | .56 | .31 | 35 |
| 6 x 2-1/2 | 50F-06025- | 51F-06025- | 9 | .56 | .31 | 38 |
| 6 x 3 | 50F-0603- | 51F-0603- | 9 | .56 | .38 | 40 |
| 6 x 4 | 50F-0604- | 51F-0604- | 9 | .56 | .50 | 45 |
| 6 x 5 | 50F-0605- | 51F-0605- | 9 | .56 | .50 | 50 |
| 8 x 3 | 50F-0803- | 51F-0803- | 11 | .62 | .38 | 57 |
| 8 x 4 | 50F-0804- | 51F-0804- | 11 | .62 | .50 | 65 |
| 8 x 5 | 50F-0805- | 51F-0805- | 11 | .62 | .50 | 70 |
| 8 x 6 | 50F-0806- | 51F-0806- | 11 | .62 | .56 | 75 |
| 10 x 4 | 50F-1004- | 51F-1004- | 12 | .75 | .50 | 85 |
| 10 x 5 | 50F-1005- | 51F-1005- | 12 | .75 | .50 | 88 |
| 10 x 6 | 50F-1006- | 51F-1006- | 12 | .75 | .56 | 90 |
| 10 x 8 | 50F-1008- | 51F-1008- | 12 | .75 | .62 | 110 |
| 12 x 4 | 50F-1204- | 51F-1204- | 14 | .81 | .50 | 120 |
| 12 x 6 | 50F-1206- | 51F-1206- | 14 | .81 | .56 | 130 |
| 12 x 8 | 50F-1208- | 51F-1208- | 14 | .81 | .62 | 145 |
| 12 x 10 | 50F-1210- | 51F-1210- | 14 | .81 | .75 | 170 |
| 14 x 6 | 50F-1406- | 51F-1406- | 16 | .66 | .55 | 155 |
| 14 x 8 | 50F-1408- | 51F-1408- | 16 | .66 | .60 | 175 |
| 14 x 10 | 50F-1410- | 51F-1410- | 16 | .66 | .68 | 190 |
| 14 x 12 | 50F-1412- | 51F-1412- | 16 | .66 | .75 | 220 |
| 16 x 6 | 50F-1606- | 51F-1606- | 18 | .70 | .55 | 190 |
| 16 x 8 | 50F-1608- | 51F-1608- | 18 | .70 | .60 | 210 |
| 16 x 10 | 50F-1610- | 51F-1610- | 18 | .70 | .68 | 235 |
| 16 x 12 | 50F-1612- | 51F-1612- | 18 | .70 | .75 | 265 |
| 16 x 14 | 50F-1614- | 51F-1614- | 18 | .70 | .66 | 280 |
| 18 x 8 | 50F-1808- | 51F-1808- | 19 | .75 | .60 | 240 |
| 18 x 10 | 50F-1810- | 51F-1810- | 19 | .75 | .68 | 265 |
| 18 x 12 | 50F-1812- | 51F-1812- | 19 | .75 | .75 | 295 |
| 18 x 14 | 50F-1814- | 51F-1814- | 19 | .75 | .66 | 310 |
| 18 x 16 | 50F-1816- | 51F-1816- | 19 | .75 | .70 | 340 |
| 20 x 10 | 50F-2010- | 51F-2010- | 20 | .80 | .68 | 310 |
| 20 x 12 | 50F-2012- | 51F-2012- | 20 | .80 | .75 | 345 |
| 20 x 14 | 50F-2014- | 51F-2014- | 20 | .80 | .66 | 355 |
| 20 x 16 | 50F-2016- | 51F-2016- | 20 | .80 | .70 | 390 |
| 20 x 18 | 50F-2018- | 51F-2018- | 20 | .80 | .75 | 410 |
| 24 x 12 | 50F-2412- | 51F-2412- | 24 | .89 | .75 | 480 |
| 24 x 14 | 50F-2414- | 51F-2414- | 24 | .89 | .66 | 490 |
| 24 x 16 | 50F-2416- | 51F-2416- | 24 | .89 | .70 | 525 |
| 24 x 18 | 50F-2418- | 51F-2418- | 24 | .89 | .75 | 550 |
| 24 x 20 | 50F-2420- | 51F-2420- | 24 | .89 | .80 | 590 |

Add suffix "C" for Grey Cast Iron - "D" for Ductile Cast Iron

Larger sizes thru 48" available upon request.

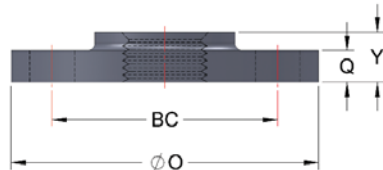
STANDARD COMPANION FLANGE (Cast Iron)



SERIES 306

| Nominal Size | Product No. | BC | O | Q | Y | Bolt Holes | | Wgt. |
|--------------|---------------|-------|--------|--------|---------|------------|------|-------|
| | | | | | | No. | Size | |
| 1 | 306-100-0425 | 3.12 | 4-1/4 | 7/16 | 11/16 | 4 | 0.62 | 1.75 |
| 1-1/4 | 306-125-0463 | 3.50 | 4-5/8 | 1/2 | 13/16 | 4 | 0.62 | 2.00 |
| 1-1/2 | 306-150-0500 | 3.88 | 5 | 9/16 | 7/8 | 4 | 0.62 | 2.25 |
| 2 | 306-200-0600 | 4.75 | 6 | 5/8 | 1 | 4 | 0.75 | 4.00 |
| 2-1/2 | 306-250-0700 | 5.50 | 7 | 11/16 | 1-1/8 | 4 | 0.75 | 6.00 |
| 3 | 306-300-0750 | 6.00 | 7-1/2 | 3/4 | 1-3/16 | 4 | 0.75 | 7.63 |
| 3-1/2 | 306-350-0850 | 7.00 | 8-1/2 | 13/16 | 1-1/4 | 8 | 0.75 | 9.50 |
| 4 | 306-400-0900 | 7.50 | 9 | 15/16 | 1-5/16 | 8 | 0.75 | 11.75 |
| 5 | 306-500-1000 | 8.50 | 10 | 15/16 | 1-7/16 | 8 | 0.88 | 14.00 |
| 6 | 306-600-1100 | 9.50 | 11 | 1 | 1-9/16 | 8 | 0.88 | 16.50 |
| 8 | 306-800-1350 | 11.75 | 13-1/2 | 1-1/8 | 1-3/4 | 8 | 0.88 | 26.00 |
| 10 | 306-1000-1600 | 14.25 | 16 | 1-3/16 | 1-15/16 | 12 | 1.00 | 38.00 |
| 12 | 306-1200-1900 | 17.00 | 19 | 1-1/4 | 2-3/16 | 12 | 1.00 | 51.00 |

REDUCING COMPANION FLANGE (Cast Iron)



SERIES 316

| Nominal Size | | Product No. | Thread Size | BC | O | Q | Y | Bolt Holes | | Weight |
|---------------|---------------|---------------|-------------|-------|--------|--------|---------|------------|------|--------|
| Pipe x O.D. | Flg. x Pipe | | | | | | | No. | Size | |
| 1 x 5 | 1-1/2 x 1 | 316-100-0500 | 1 | 3.88 | 5 | 9/1 | 11/16 | 4 | 0.62 | 2.75 |
| 1-1/4 x 5 | 1-1/2 x 1-1/4 | 316-125-0500 | 1-1/4 | | | | 13/16 | | | 2.50 |
| 1 x 6 | 2 x 1 | 316-100-0600 | 1 | 4.75 | 6 | 5/8 | 11/16 | 4 | 0.75 | 5.00 |
| 1-1/4 x 6 | 2 x 1-1/4 | 316-125-0600 | 1-1/4 | | | | 13/16 | | | 4.75 |
| 1-1/2 x 6 | 2 x 1-1/2 | 316-150-0600 | 1-1/2 | | | | 7/8 | | | 4.50 |
| 1-1/2 x 7 | 2-1/2 x 1-1/2 | 316-150-0700 | 1-1/2 | 5.50 | 7 | 11/16 | 7/8 | 4 | 0.75 | 7.00 |
| 2 x 7 | 2-1/2 x 2 | 316-200-0700 | 2 | | | | 1 | | | 6.75 |
| 1 x 7-1/2 | 3 x 1 | 316-100-0750 | 1 | | | | 13/16 | | | 9.00 |
| 1-1/2 x 7-1/2 | 3 x 1-1/2 | 316-150-0750 | 1-1/2 | 6.00 | 7-1/2 | 3/4 | 7/8 | 4 | 0.75 | 8.75 |
| 2 x 7-1/2 | 3 x 2 | 316-200-0750 | 2 | | | | 1 | | | 8.50 |
| 2-1/2 x 7-1/2 | 3 x 2-1/2 | 316-250-0750 | 2-1/2 | | | | 1-1/8 | | | 8.00 |
| 1-1/2 x 9 | 4 x 1-1/2 | 316-150-0900 | 1-1/2 | | | | 1 | | | 14.75 |
| 2 x 9 | 4 x 2 | 316-200-0900 | 2 | | | | 1 | | | 14.00 |
| 2-1/2 x 9 | 4 x 2-1/2 | 316-250-0900 | 2-1/2 | 7.50 | 9 | 15/16 | 1-1/8 | 8 | 0.75 | 13.50 |
| 3 x 9 | 4 x 3 | 316-300-0900 | 3 | | | | 1-3/16 | | | 12.75 |
| 2 x 10 | 5 x 2 | 316-200-1000 | 2 | | | | 1 | | | 18.00 |
| 3 x 10 | 5 x 3 | 316-300-1000 | 3 | 8.50 | 10 | 15/16 | 1-3/16 | 8 | 0.88 | 17.00 |
| 4 x 10 | 5 x 4 | 316-400-1000 | 4 | | | | 1-5/16 | | | 16.00 |
| 1-1/2 x 11 | 6 x 1-1/2 | 316-150-1100 | 1-1/2 | | | | 1-1/16 | | | 27.00 |
| 2 x 11 | 6 x 2 | 316-200-1100 | 2 | | | | 1-1/16 | | | 26.00 |
| 2-1/2 x 11 | 6 x 2-1/2 | 316-250-1100 | 2-1/2 | 9.50 | 11 | 1 | 1-1/8 | 8 | 0.88 | 25.00 |
| 3 x 11 | 6 x 3 | 316-300-110 | 3 | | | | 1-3/16 | | | 23.00 |
| 4 x 11 | 6 x 4 | 316-400-1100 | 4 | | | | 1-5/16 | | | 21.00 |
| 5 x 11 | 6 x 5 | 316-500-1100 | 5 | | | | 1-7/16 | | | 19.00 |
| 2 x 13-1/2 | 8 x 2 | 316-200-1350 | 2 | | | | 1-3/16 | | | 4.00 |
| 3 x 13-1/2 | 8 x 3 | 316-300-1350 | 3 | | | | 1-3/16 | | | 40.00 |
| 4 x 13-1/2 | 8 x 4 | 316-400-1350 | 4 | 11.75 | 13-1/2 | 1-1/8 | 1-5/16 | 8 | 0.88 | 37.00 |
| 5 x 13-1/2 | 8 x 5 | 316-500-1350 | 5 | | | | 1-7/16 | | | 34.00 |
| 6 x 13-1/2 | 8 x 6 | 316-600-1350 | 6 | | | | 1-9/16 | | | 31.00 |
| 2 x 16 | 10 x 2 | 316-200-1600 | 2 | | | | 1-15/16 | | | 61.00 |
| 4 x 16 | 10 x 4 | 316-400-1600 | 4 | | | | 1-15/16 | | | 57.00 |
| 6 x 16 | 10 x 6 | 316-600-1600 | 6 | 14.25 | 16 | 1-3/16 | 1-15/16 | 12 | 1.00 | 53.00 |
| 8 x 16 | 10 x 8 | 316-800-1600 | 8 | | | | 1-15/16 | | | 50.00 |
| 2 x 19 | 12 x 2 | 316-200-1900 | 2 | | | | 2-3/16 | | | 84.00 |
| 4 x 19 | 12 x 4 | 316-400-1900 | 4 | | | | 2-3/16 | | | 86.00 |
| 6 x 19 | 12 x 6 | 316-600-1900 | 6 | 17.00 | 19 | 1-1/4 | 2-3/16 | 12 | 1.00 | 88.00 |
| 8 x 19 | 12 x 8 | 316-800-1900 | 8 | | | | 2-3/16 | | | 81.00 |
| 10 x 19 | 12 x 10 | 316-1000-1900 | 10 | | | | 2-3/16 | | | 72.00 |

Add suffix "C" for Grey Cast Iron - "D" for Ductile Cast Iron

Larger sizes thru 48" available upon request.

REDI-FLANGE™

**No Welding!
No Threading!**

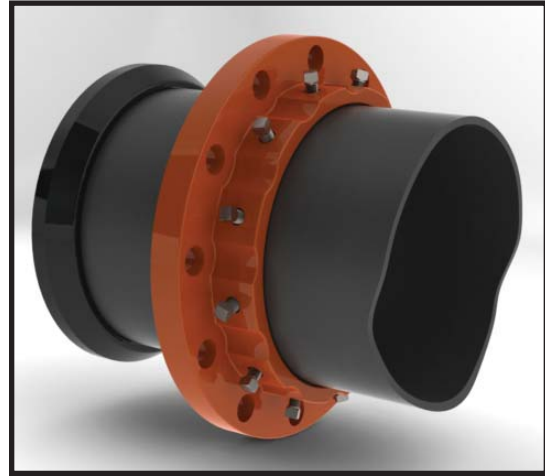
STANDARDS:

Ductile Iron - ASTM A536
Grade 65-45-12. Drilling to
ANSI B16.1 - 125 lb.
ANSI B16.5 - 150 lb.

SET SCREW: AISI

steel. Tensile 160,000
psi minimum.

GASKET: SBR (BUNA-N).



HYDROSTATIC TEST

PRESSURE:

MODEL - RFC-2 - 125 lb./150 lb.
2 in. - 8 in. 600 psi
10 in. - 12 in. 525 psi

MODEL - RFC-4 - 125 lb./150 lb.
14 in. - 24 in. 300 psi

The *Redi-Flange™* joins valves, fittings and equipment with integral flanged ends to plain end pipe, without the need of pipe end preparation. Absolutely no threading, welding, or grooving is necessary. The working principle of the *Redi-Flange™* is relatively simple. Slide the flange over plain end pipe and follow it with a standard mechanical joint gasket. When the *Redi-Flange™* is brought to mate against an existing flange, and the flange bolts are tightened, a compression type seal is created against the mating flange and pipe surface. End restraint is provided when the set screws are tightened.

| Nom. Pipe Size | Part No. | D.I. Pipe O.D. RFC-2- | Steel Pipe O.D. RFC-2-S | Flange O.D. | Bolt Circle | Bolt Hole Dia. | Set Screws | | Wgt. Approx. |
|----------------|----------|-----------------------|-------------------------|-------------|-------------|----------------|------------|-------------|--------------|
| | | | | | | | No. | Size | |
| 2 | RFC-201 | 2.50 | 2.38 | 6 | 4-3/4 | 3/4 | 2 | 1/2 x 1 | 3.5 |
| 2-1/2 | RFC-202 | - | 2.88 | 7 | 5-1/2 | 3/4 | 4 | 1/2 x 1 | 4 |
| 3 | RFC-203 | 3.96 | 3.50 | 7-1/2 | 6 | 3/4 | 4 | 1/2 x 1 | 5 |
| 4 | RFC-204 | 4.80 | 4.50 | 9 | 7-1/2 | 3/4 | 4 | 1/2 x 1 | 8 |
| 5 | RFC-205 | - | 5.56 | 10 | 8-1/2 | 7/8 | 8 | 1/2 x 1 | 9 |
| 6 | RFC-206 | 6.90 | 6.625 | 11 | 9-1/2 | 7/8 | 8 | 1/2 x 1 | 10 |
| 8 | RFC-208 | 9.05 | 8.625 | 13-1/2 | 11-3/4 | 7/8 | 8 | 5/8 x 1-1/4 | 17 |
| 10 | RFC-210 | 11.10 | 10.75 | 16 | 14-1/4 | 1 | 12 | 5/8 x 1-1/4 | 22 |
| 12 | RFC-212 | 13.20 | 12.75 | 19 | 17 | 1 | 12 | 5/8 x 1-1/4 | 31 |

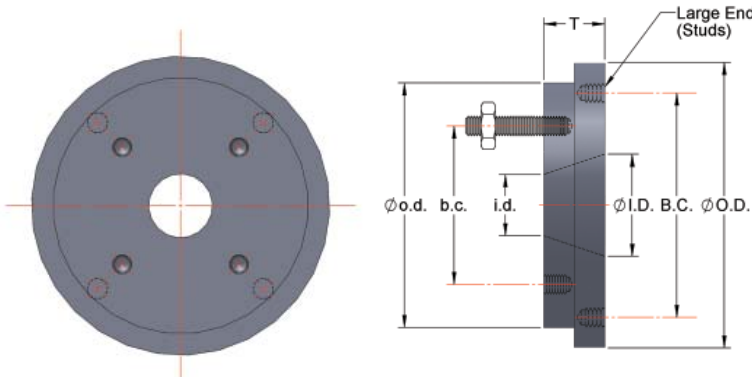
| Nom. Pipe Size | Part No. | D.I. Pipe O.D. RFC-4- | Flange O.D. | Bolt Circle | Boly Hole Dia. | Set Screws | | Wgt. Approx. |
|----------------|----------|-----------------------|-------------|-------------|----------------|------------|-------------|--------------|
| | | | | | | No. | Size | |
| 14 | RFC-414 | 15.30 | 21 | 18-3/4 | 1-1/8 | 12 | 5/8 x 1-1/4 | 70 |
| 16 | RFC-416 | 17.40 | 23-1/2 | 21-1/4 | 1-1/8 | 16 | 5/8 x 1-1/4 | 79 |
| 18 | RFC-418 | 19.50 | 25 | 22-3/4 | 1-1/4 | 16 | 3/4 x 2 | 90 |
| 20 | RFC-420 | 21.60 | 27-1/2 | 25 | 1-1/4 | 20 | 3/4 x 2 | 145 |
| 24 | RFC-424 | 25.80 | 32 | 29-1/2 | 1-3/8 | 20 | 3/4 x 2 | 175 |
| 30 | RFC-430 | 32.00 | 38-3/4 | 36 | 1-3/8 | 28 | 1 x 2-1/4 | 270 |
| 36 | RFC-436 | 38.30 | 46 | 42-3/4 | 1-5/8 | 32 | 1 x 2-1/4 | 400 |

COMPACT FLANGE REDUCER Class 125/150 Flanges

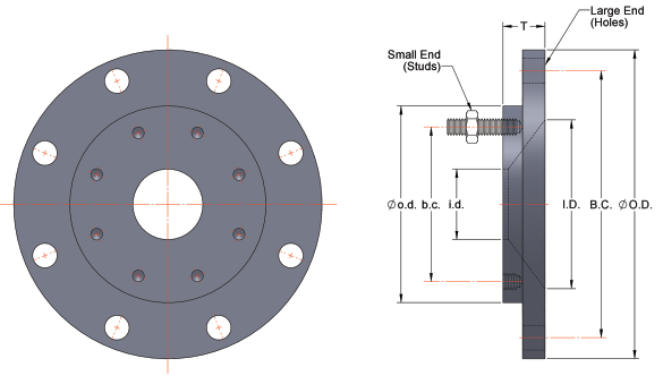
Mates with ANSI Class 125/150 flange drillings

Material: Ductile Iron - ASTM A536 or ASTM A36 Steel

TYPE A



TYPE B



| Flange Size | Part No. | Large End | | | Small End | | | T | Type | Large End Studs | | Small End Studs | |
|---------------|-------------|-----------|-------|-------|-----------|-------|-------|------|------|-----------------|-------------|-----------------|-------------|
| | | I.D. | O.D. | B.C. | i.d. | o.d. | b.c. | | | Qty. | Size | Qty. | Size |
| 2 x 1-1/2 | 740-110-100 | 2.00 | 6.00 | 4.75 | 1.50 | 6.00 | 3.88 | 1.50 | A | 4 | 5/8 x 2-1/2 | 4 | 1/2 x 2-1/2 |
| 2 1/2 x 1-1/2 | 740-120-100 | 2.50 | 7.00 | 5.50 | 1.50 | 6.00 | 3.88 | 1.50 | A | 4 | 5/8 x 2-1/2 | 4 | 1/2 x 2-1/2 |
| 2 1/2 x 2 | 740-120-110 | 2.50 | 7.00 | 5.50 | 2.00 | 6.00 | 4.75 | 1.50 | A | 4 | 5/8 x 2-1/2 | 4 | 5/8 x 2-1/2 |
| 3 x 1-1/2 | 740-130-100 | 3.00 | 7.50 | 6.00 | 1.50 | 6.00 | 3.88 | 1.50 | A | 4 | 5/8 x 2-1/2 | 4 | 1/2 x 2-1/2 |
| 3 x 2 | 740-130-110 | 3.00 | 7.50 | 6.00 | 2.00 | 6.00 | 4.75 | 1.50 | A | 4 | 5/8 x 2-1/2 | 4 | 5/8 x 2-1/2 |
| 3 x 2-1/2 | 740-130-120 | 3.00 | 7.50 | 6.00 | 2.50 | 7.00 | 5.50 | 1.50 | A | 4 | 5/8 x 2-1/2 | 4 | 5/8 x 2-1/2 |
| 4 x 2 | 740-140-110 | 4.00 | 9.00 | 7.50 | 2.00 | 6.00 | 4.75 | 1.50 | A | 8 | 5/8 x 3 | 4 | 5/8 x 2-1/2 |
| 4 x 2-1/2 | 740-140-120 | 4.00 | 9.00 | 7.50 | 2.50 | 7.00 | 5.50 | 1.50 | A | 8 | 5/8 x 3 | 4 | 5/8 x 2-1/2 |
| 4 x 3 | 740-140-130 | 4.00 | 9.00 | 7.50 | 3.00 | 7.50 | 6.00 | 1.50 | A | 8 | 5/8 x 3 | 4 | 5/8 x 2-1/2 |
| 6 x 2-1/2 | 790-160-120 | 6.00 | 11.00 | 9.50 | 2.50 | 7.00 | 5.50 | 1.50 | B | - | - | 8 | 5/8 x 2-1/2 |
| 6 x 3 | 790-160-130 | 6.00 | 11.00 | 9.50 | 3.00 | 7.50 | 6.00 | 1.50 | B | - | - | 8 | 5/8 x 2-1/2 |
| 6 x 4 | 740-160-140 | 6.00 | 11.00 | 9.50 | 4.00 | 9.00 | 7.50 | 2.00 | A | 8 | 3/4 x 3-1/2 | 8 | 5/8 x 3 |
| 6 x 5 | 740-160-150 | 6.00 | 11.00 | 9.50 | 5.00 | 10.00 | 8.50 | 2.00 | A | 8 | 3/4 x 3-1/2 | 8 | 3/4 x 3-1/2 |
| 8 x 4 | 790-180-140 | 8.00 | 13.50 | 11.75 | 4.00 | 9.00 | 7.50 | 2.00 | B | - | - | 8 | 5/8 x 3 |
| 8 x 5 | 740-180-150 | 8.00 | 13.50 | 11.75 | 5.00 | 10.00 | 8.50 | 2.00 | A | 8 | 3/4 x 3-1/2 | 8 | 3/4 x 3-1/2 |
| 8 x 6 | 740-180-160 | 8.00 | 13.50 | 11.75 | 6.00 | 11.00 | 9.50 | 2.00 | A | 8 | 3/4 x 3-1/2 | 8 | 3/4 x 3-1/2 |
| 10 x 2 | 790-200-110 | 10.00 | 16.00 | 14.25 | 2.00 | 6.00 | 4.75 | 1.50 | B | - | - | 4 | 5/8 x 2-1/2 |
| 10 x 4 | 790-200-140 | 10.00 | 16.00 | 14.25 | 4.00 | 9.00 | 7.50 | 2.00 | B | - | - | 12 | 5/8 x 3 |
| 10 x 5 | 790-200-150 | 10.00 | 16.00 | 14.25 | 5.00 | 10.00 | 8.50 | 2.00 | B | - | - | 12 | 3/4 x 3-1/2 |
| 10 x 6 | 740-200-160 | 10.00 | 16.00 | 14.25 | 6.00 | 11.00 | 9.50 | 2.00 | A | 12 | 7/8 x 4 | 8 | 3/4 x 3-1/2 |
| 10 x 8 | 740-200-180 | 10.00 | 16.00 | 14.25 | 8.00 | 13.50 | 11.75 | 2.00 | A | 12 | 7/8 x 4 | 8 | 3/4 x 3-1/2 |
| 12 x 4 | 790-220-140 | 12.00 | 19.00 | 17.00 | 4.00 | 9.00 | 7.50 | 2.00 | B | - | - | 12 | 5/8 x 3 |
| 12 x 6 | 790-220-160 | 12.00 | 19.00 | 17.00 | 6.00 | 11.00 | 9.50 | 2.00 | B | - | - | 12 | 3/4 x 3-1/2 |
| 12 x 8 | 740-220-180 | 12.00 | 19.00 | 17.00 | 8.00 | 13.50 | 11.75 | 2.00 | A | 12 | 7/8 x 4 | 8 | 3/4 x 3-1/2 |
| 12 x 10 | 740-220-200 | 12.00 | 19.00 | 17.00 | 10.00 | 16.00 | 14.25 | 2.00 | A | 12 | 7/8 x 4 | 12 | 7/8 x 4 |
| 14 x 6 | 790-240-160 | 14.00 | 21.00 | 18.75 | 6.00 | 11.00 | 9.50 | 2.50 | B | - | - | 12 | 3/4 x 3-1/2 |
| 14 x 8 | 790-240-180 | 14.00 | 21.00 | 18.75 | 8.00 | 13.50 | 11.75 | 2.50 | B | - | - | 12 | 3/4 x 3-1/2 |
| 14 x 10 | 740-240-200 | 14.00 | 21.00 | 18.75 | 10.00 | 16.00 | 14.25 | 2.50 | A | 12 | 1 x 4-1/2 | 12 | 7/8 x 4 |
| 14 x 12 | 740-240-220 | 14.00 | 21.00 | 18.75 | 12.00 | 19.00 | 17.00 | 2.50 | A | 12 | 1 x 4-1/2 | 12 | 7/8 x 4 |
| 16 x 6 | 790-260-160 | 16.00 | 23.50 | 21.25 | 3.00 | 11.00 | 9.50 | 2.50 | B | - | - | 16 | 3/4 x 3-1/2 |
| 16 x 8 | 790-260-180 | 16.00 | 23.50 | 21.25 | 8.00 | 13.50 | 11.75 | 2.50 | B | - | - | 16 | 3/4 x 3-1/2 |
| 16 x 10 | 790-260-200 | 16.00 | 23.50 | 21.25 | 10.00 | 16.00 | 14.25 | 2.50 | B | - | - | 16 | 7/8 x 4 |
| 16 x 12 | 740-260-220 | 16.00 | 23.50 | 21.25 | 12.00 | 19.00 | 17.00 | 2.50 | A | 16 | 1 x 4-1/2 | 12 | 7/8 x 4 |
| 16 x 14 | 740-260-240 | 16.00 | 23.50 | 21.25 | 14.00 | 21.00 | 18.75 | 2.50 | A | 16 | 1 x 4-1/2 | 12 | 1 x 4-1/2 |
| 18 x 12 | 740-280-220 | 18.00 | 25.00 | 22.75 | 12.00 | 19.00 | 17.00 | 2.50 | B | - | - | 12 | 7/8 x 4 |
| 20 x 12 | 740-300-220 | 20.00 | 27.50 | 25.00 | 12.00 | 19.00 | 17.00 | 2.50 | B | - | - | 12 | 7/8 x 4 |

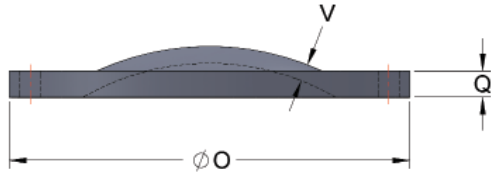
Add suffix "C" for Grey Cast Iron - "D" for Ductile Cast Iron

Larger sizes thru 48" available upon request.

BLIND FLANGES



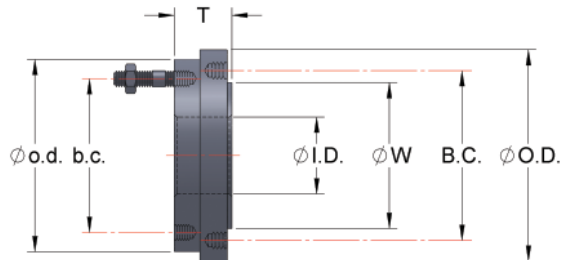
SERIES 60 (1"-10")



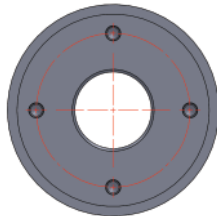
SERIES 60 (12")

| Size | Part No. | O | Q | V | Weight |
|-------|-----------|-------|------|------|--------|
| 1 | 60F-0100- | 4.25 | .44 | .38 | 2 |
| 1-1/4 | 60F-0125- | 4.62 | .50 | .44 | 2.25 |
| 1-1/2 | 60F-0150- | 5.00 | .56 | .50 | 3.75 |
| 2 | 60F-0200- | 6.00 | .62 | .62 | 5 |
| 2-1/2 | 60F-0250- | 7.00 | .68 | .62 | 7 |
| 3 | 60F-0300- | 7.50 | .75 | .69 | 9 |
| 3-1/2 | 60F-0350- | 8.50 | .81 | .75 | 14 |
| 4 | 60F-0400- | 9.00 | .94 | .88 | 16 |
| 5 | 60F-0500- | 10.00 | .94 | .88 | 18 |
| 6 | 60F-0600- | 11.00 | 1.00 | .94 | 25 |
| 8 | 60F-0800- | 13.50 | 1.12 | 1.06 | 42 |
| 10 | 60F-1000- | 16.00 | 1.19 | 1.12 | 62 |
| 12 | 60F-1200- | 19.00 | 1.25 | .81 | 85 |
| 14 | 60F-1400- | 21.00 | 1.38 | .88 | 120 |
| 16 | 60F-1600- | 23.50 | 1.44 | 1.00 | 145 |
| 18 | 60F-1800- | 25.00 | 1.56 | 1.06 | 185 |
| 20 | 60F-2000- | 27.50 | 1.69 | 1.12 | 245 |
| 24 | 60F-2400- | 32.00 | 1.88 | 1.25 | 370 |

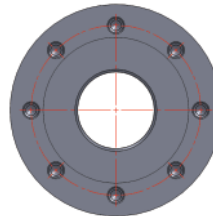
FLANGE CONVERTERS



Class 125/150



Class 250/300



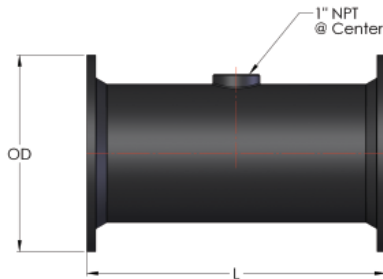
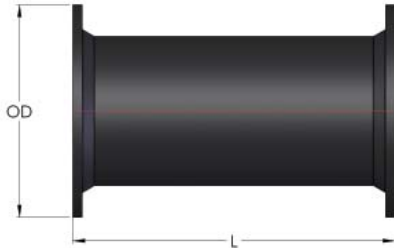
| Part No. | CLASS 125/150 | | | | | CLASS 250/300 | | | | | | | Weight |
|----------|------------------|------|-------|-------------------|----------------|---------------|-------|------|------|-------|-------------------|----------------|--------|
| | Flange Size/I.D. | o.d. | b.c. | No. of Bolt Holes | Stud Bolt Size | W | B.C. | O.D. | A | T | No. of Bolt Holes | Stud Bolt Size | |
| 840-130 | 3 | 7.50 | 6.0 | 4 | 5/8 x 3 | 5.69 | 6.62 | 8.25 | 0.06 | 2 | 8 | 3/4 x 3-1/2 | 24 |
| 840-140 | 4 | 9 | 7.5 | 8 | 5/8 x 3 | 6.94 | 7.88 | 10 | 0.06 | 2 | 8 | 3/4 x 3-1/2 | 28 |
| 840-150 | 5 | 10 | 8.5 | 8 | 3/4 x 3-1/2 | 8.31 | 9.25 | 11 | 0.06 | 2 | 8 | 3/4 x 3-1/2 | 32 |
| 840-160 | 6 | 11 | 9.5 | 8 | 3/4 x 3-1/2 | 9.69 | 10.62 | 12.5 | 0.06 | 2 | 12 | 3/4 x 3 1/2 | 42 |
| 840-180 | 8 | 13.5 | 11.75 | 8 | 3/4 x 3-1/2 | 11.94 | 13 | 15 | 0.06 | 2 1/4 | 12 | 7/8 x 4 | 66 |
| 840-200 | 10 | 16 | 14.25 | 12 | 7/8 x 4 | 14.06 | 15.25 | 17.5 | 0.06 | 2 3/4 | 16 | 1 x 4-1/2 | 100 |
| 840-220 | 12 | 19 | 17 | 12 | 7/8 x 4 | 16.44 | 17.75 | 20.5 | 0.06 | 2 3/4 | 16 | 1-1/8 x 5-1/2 | 160 |

Add suffix "C" for Grey Cast Iron - "D" for Ductile Cast Iron

Larger sizes thru 48" available upon request.

DUCTILE IRON FLANGED PIPES

Integrally Cast

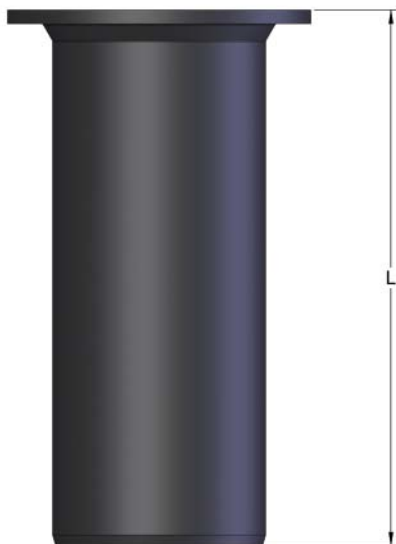


| Part Number | Size (ND) | Length | Weight (Approx.) |
|-------------|-----------|--------|------------------|
| 80F-0406- | 4" | 6" | 29.00 |
| 80F-0412- | | 12" | 35.92 |
| 80F-0418- | | 18" | 42.87 |
| 80F-0424- | | 24" | 49.79 |
| 80F-0606- | 6" | 6" | 41.10 |
| 80F-0612- | | 12" | 52.19 |
| 80F-0618- | | 18" | 63.28 |
| 80F-0624- | | 24" | 74.37 |
| 80F-0806- | 8" | 6" | 110.89 |
| 80F-0812- | | 12" | 127.16 |
| 80F-0818- | | 18" | 141.65 |
| 80F-0824- | | 24" | 157.04 |

Raised Boss w/1" NPT

| | | | |
|-----------|----|-----|--------|
| 87F-0412- | 4" | 12" | 36.00 |
| 87F-0612- | 6" | | 52.00 |
| 87F-0812- | 8" | | 127.16 |

FLANGE SPIGOT



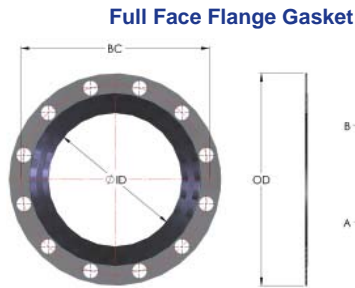
| Part Number | Size (ND) | Length | Weight (Approx.) |
|-------------|-----------|--------|------------------|
| 56F-0448- | 4" | 48" | 69 |
| 56F-0460- | | 60" | 83 |
| 56F-0472- | | 72" | 97 |
| 56F-0496- | | 96" | 124 |
| 56F-0648- | 6" | 48" | 105 |
| 56F-0660- | | 60" | 126 |
| 56F-0672- | | 72" | 147 |
| 56F-0696- | | 96" | 190 |
| 56F-0848- | 8" | 48" | 150 |
| 56F-0860- | | 60" | 181 |
| 56F-0872- | | 72" | 211 |
| 56F-0896- | | 96" | 271 |

Add suffix "C" for Grey Cast Iron - "D" for Ductile Cast Iron

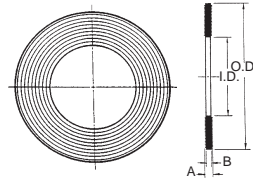
Larger sizes thru 48" available upon request.

SEAL-TITE FLANGE GASKET

Low Torque!



Ring Type Flange Gasket

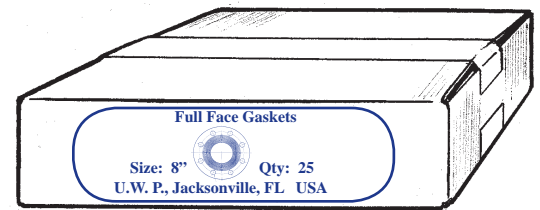
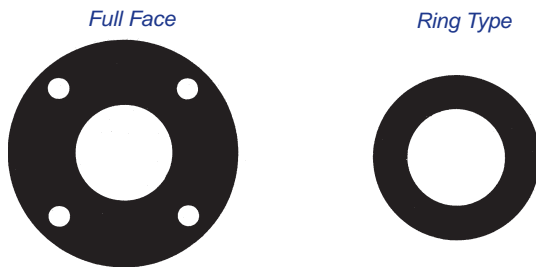


Serrated Face!

Material: SBR

| Nominal Size | Part No. (Full Face) | Part No. (Ring) | ID | OD (Full Face) | OD (Ring) | A | B | BC (Full Face) | Box Quantity (Full Face) | Box Quantity (Ring) |
|--------------|----------------------|-----------------|-------|----------------|-----------|------|-----|----------------|--------------------------|---------------------|
| 2 | FFG-050-150 | RG-050-100 | 2.15 | 6.00 | 3.90 | 5/32 | 1/8 | 4.75 | 25 | 25 |
| 2 1/2 | FFG-065-175 | RG-065-120 | 2.73 | 7.00 | 4.70 | 5/32 | 1/8 | 5.50 | 25 | 25 |
| 3 | FFG-080-188 | RG-080-132 | 3.20 | 7.50 | 5.15 | 5/32 | 1/8 | 6.00 | 25 | 25 |
| 4 | FFG-100-210 | RG-100-162 | 3.98 | 9.00 | 6.30 | 5/32 | 1/8 | 7.50 | 25 | 25 |
| 5 | FFG-125-250 | RG-125-194 | 5.07 | 10.00 | 7.60 | 5/32 | 1/8 | 8.50 | 25 | 25 |
| 6 | FFG-150-275 | RG-150-218 | 6.01 | 11.00 | 8.50 | 5/32 | 1/8 | 9.50 | 25 | 25 |
| 8 | FFG-200-340 | RG-200-272 | 8.11 | 13.50 | 10.60 | 5/32 | 1/8 | 11.75 | 25 | 25 |
| 10 | FFG-250-400 | RG-250-328 | 10.06 | 16.00 | 12.80 | 5/32 | 1/8 | 14.25 | 25 | 25 |
| 12 | FFG-300-475 | RG-300-378 | 12.09 | 19.00 | 14.75 | 5/32 | 1/8 | 17.00 | 10 | 10 |
| 14 | FFG-350-525 | RG-350-445 | 14.12 | 21.00 | 17.15 | 5/32 | 1/8 | 18.75 | 10 | 10 |
| 16 | FFG-400-588 | RG-400-510 | 16.19 | 23.50 | 19.90 | 5/32 | 1/8 | 21.25 | 10 | 10 |
| 18 | FFG-450-625 | RG-450-542 | 18.25 | 25.00 | 21.15 | 5/32 | 1/8 | 22.75 | 10 | 10 |
| 20 | FFG-500-688 | RG-500-606 | 20.28 | 27.50 | 23.60 | 5/32 | 1/8 | 25.00 | 10 | 10 |
| 24 | FFG-600-800 | RG-600-717 | 24.34 | 32.00 | 27.95 | 5/32 | 1/8 | 29.50 | 10 | 10 |
| 30 | FFG-750-985 | - | 30.98 | 38.75 | - | 5/32 | 1/8 | 36.00 | 5 | - |
| 36 | FFG-900-1165 | - | 37.14 | 46.00 | - | 5/32 | 1/8 | 42.75 | 5 | - |

FLAT FLANGE GASKET



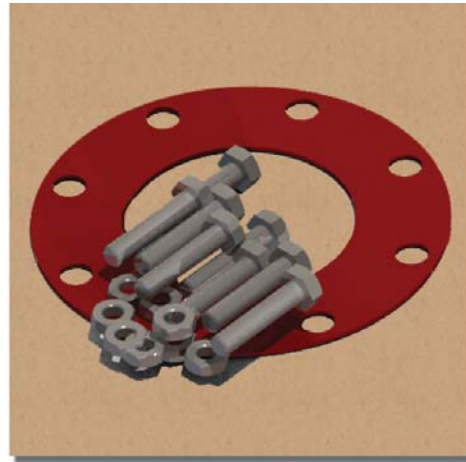
Material: Red Rubber
Non-Asbestos

| Nominal Size | Part No. (Full Face) | Part No. (Ring) | OD (Full Face) | OD (Ring) | Thickness | Bolt Circle (Full Face) | Box Quantity (Full Face) | Box Quantity (Ring) |
|--------------|----------------------|-----------------|----------------|-----------|-----------|-------------------------|--------------------------|---------------------|
| 1 | FFF-025-100 | FRG-025-065 | 4.25 | 2.63 | 1/8 | 3.12 | 25 | 25 |
| 1-1/4 | FFF-030-115 | FRG-030-080 | 4.62 | 3.00 | 1/8 | 3.50 | 25 | 25 |
| 1-1/2 | FFF-040-125 | FRG-040-085 | 5.00 | 3.38 | 1/8 | 3.88 | 25 | 25 |
| 2 | FFF-050-150 | FRG-050-100 | 6.00 | 3.90 | 1/8 | 4.75 | 25 | 25 |
| 2 1/2 | FFF-065-175 | FRG-065-120 | 7.00 | 4.70 | 1/8 | 5.50 | 25 | 25 |
| 3 | FFF-080-188 | FRG-080-132 | 7.50 | 5.15 | 1/8 | 6.00 | 25 | 25 |
| 4 | FFF-100-210 | FRG-100-162 | 9.00 | 6.30 | 1/8 | 7.50 | 25 | 25 |
| 5 | FFF-125-250 | FRG-125-194 | 10.00 | 7.60 | 1/8 | 8.50 | 25 | 25 |
| 6 | FFF-150-275 | FRG-150-218 | 11.00 | 8.50 | 1/8 | 9.50 | 25 | 25 |
| 8 | FFF-200-340 | FRG-200-272 | 13.50 | 10.60 | 1/8 | 11.75 | 25 | 25 |
| 10 | FFF-250-400 | FRG-250-328 | 16.00 | 12.80 | 1/8 | 14.25 | 25 | 25 |
| 12 | FFF-300-475 | FRG-300-378 | 19.00 | 14.75 | 1/8 | 17.00 | 10 | 10 |
| 14 | FFF-350-525 | FRG-350-445 | 21.00 | 17.15 | 1/8 | 18.75 | 10 | 10 |
| 16 | FFF-400-588 | FRG-400-510 | 23.50 | 19.90 | 1/8 | 21.25 | 10 | 10 |
| 18 | FFF-450-625 | FRG-450-542 | 25.00 | 21.15 | 1/8 | 22.75 | 10 | 10 |
| 20 | FFF-500-688 | FRG-500-606 | 27.50 | 23.60 | 1/8 | 25.00 | 10 | 10 |
| 24 | FFF-600-800 | FRG-600-717 | 32.00 | 27.95 | 1/8 | 29.50 | 10 | 10 |
| 30 | FFF-750-985 | - | 38.75 | - | 1/8 | 36.00 | 5 | - |
| 36 | FFF-900-1165 | - | 46.00 | - | 1/8 | 42.75 | 5 | - |
| 42 | FFF-1000-1345 | - | 53.00 | - | 1/8 | 49.50 | 5 | - |
| 48 | FFF-1200-1510 | - | 59.50 | - | 1/8 | 56.00 | 5 | - |

FLANGE ACCESSORY PACKS

Class 125 & Class 250

Flanges



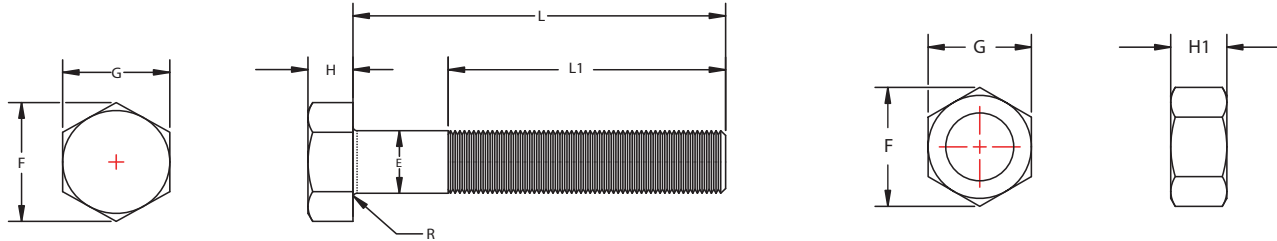
| Class 125/150 Flange Size | 1/8" Full Face Seal-Tite (Serrated) | 1/8" Ring Type Seal-Tite (Serrated) | 1/8" Full Face Red Rubber | 1/8" Ring Type Red Rubber | 1/8" Full Face Non-Asbestos | 1/8" Ring Type Non-Asbestos |
|---------------------------------|---|---|------------------------------|------------------------------|--------------------------------|--------------------------------|
| 1 | FBR-010-* | RBP-010-* | FRP-010-* | RRP-010-* | FNP-010-* | RNP-010-* |
| 1-1/4 | FBR-012-* | RBP-012-* | FRP-012-* | RRP-012-* | FNP-012-* | RNP-012-* |
| 1-1/2 | FBR-015-* | RBP-015-* | FRP-015-* | RRP-015-* | FNP-015-* | RNP-015-* |
| 2 | FBR-020-* | RBP-020-* | FRP-020-* | RRP-020-* | FNP-020-* | RNP-020-* |
| 2-1/2 | FBR-025-* | RBP-025-* | FRP-025-* | RRP-025-* | FNP-025-* | RNP-025-* |
| 3 | FBR-030-* | RBP-030-* | FRP-030-* | RRP-030-* | FNP-030-* | RNP-030-* |
| 4 | FBR-040-* | RBP-040-* | FRP-040-* | RRP-040-* | FNP-040-* | RNP-040-* |
| 5 | FBR-050-* | RBP-050-* | FRP-050-* | RRP-050-* | FNP-050-* | RNP-050-* |
| 6 | FBR-060-* | RBP-060-* | FRP-060-* | RRP-060-* | FNP-060-* | RNP-060-* |
| 8 | FBR-080-* | RBP-080-* | FRP-080-* | RRP-080-* | FNP-080-* | RNP-080-* |
| 10 | FBR-100-* | RBP-100-* | FRP-100-* | RRP-100-* | FNP-100-* | RNP-100-* |
| 12 | FBR-120-* | RBP-120-* | FRP-120-* | RRP-120-* | FNP-120-* | RNP-120-* |
| 14 | FBR-140-* | RBP-140-* | FRP-140-* | RRP-140-* | FNP-140-* | RNP-140-* |
| 16 | FBR-160-* | RBP-160-* | FRP-160-* | RRP-160-* | FNP-160-* | RNP-160-* |
| 18 | FBR-180-* | RBP-180-* | FRP-180-* | RRP-180-* | FNP-180-* | RNP-180-* |
| 20 | FBR-200-* | RBP-200-* | FRP-200-* | RRP-200-* | FNP-200-* | RNP-200-* |
| 24 | FBR-240-* | RBP-240-* | FRP-240-* | RRP-240-* | FNP-240-* | RNP-240-* |
| 30 | FBR-260-* | RBP-260-* | FRP-260-* | RRP-260-* | FNP-260-* | RNP-260-* |
| 36 | FBR-280-* | RBP-280-* | FRP-280-* | RRP-280-* | FNP-280-* | RNP-280-* |
| 42 | FBR-300-* | RBP-300-* | FRP-300-* | RRP-300-* | FNP-300-* | RNP-300-* |
| 48 | FBR-340-* | RBP-340-* | FRP-340-* | RRP-340-* | FNP-340-* | RNP-340-* |

*Add suffix "Z" for Zinc Plated, "304" for 304 Stainless Steel & "316" for 316 Stainless Steel

*Add suffix "250" for Zinc Class 250 Flange Accessories

Heavy Hex Bolts and Nuts for Flanges to B16.1-125#, B16.5-150#

Material: Bolts - ASTM A307 Grade B, Nuts -ASTM A563, Grade A

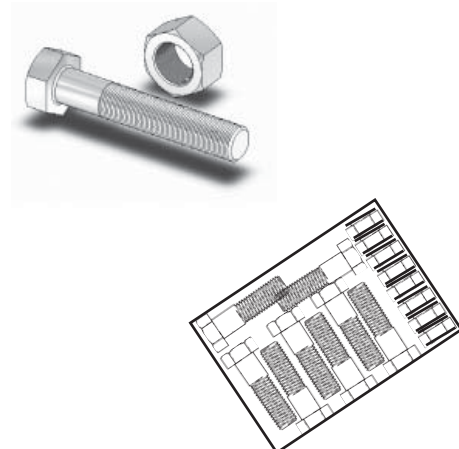


| Nominal Size | Part No. | E | G | F | H | HI | R | L ₁ | L |
|---------------|----------------|--------------|--------------------|---------------------------|------------------|------------|------------------|----------------|--------------|
| | | Body Diamete | Width Across Flats | Max. Width Across Corners | Bolt Head Height | Nut Height | Radius of Fillet | Thread Length | Shaft Length |
| 1/2 x 2 | BN7025-050-200 | 0.515 | 7/8 | 1.010 | 11.32 | 31/64 | 0.01~0.03 | 1.25 | 2.00 |
| 5/8 x 2-1/2 | BN7025-062-250 | 0.642 | 1-1/16 | 1.227 | 27/64 | 39/64 | 0.02~0.06 | 1.50 | 2.50 |
| 5/8 x 3 | BN7025-062-300 | 0.642 | 1-1/16 | 1.227 | 27/64 | 39/64 | 0.02~0.06 | 1.50 | 3.00 |
| 3/4 x 3-1/2 | BN7025-075-350 | 0.768 | 1-1/4 | 1.443 | 1/2 | 47/64 | 0.02~0.06 | 1.75 | 3.50 |
| 3/4 x 4-1/2 | BN7025-075-450 | 0.768 | 1-1/4 | 1.443 | 1/2 | 47/64 | 0.02~0.06 | 1.75 | 4.50 |
| 7/8 x 4 | BN7025-082-400 | 0.895 | 1-7/16 | 1.660 | 37/64 | 55/64 | 0.02~0.06 | 2.00 | 4.00 |
| 7/8 x 4-1/2 | BN7025-082-450 | 0.895 | 1-7/16 | 1.660 | 37/64 | 55/64 | 0.02~0.06 | 2.00 | 4.50 |
| 1 x 4-1/2 | BN7025-100-450 | 1.022 | 1-5/8 | 1.876 | 43/64 | 63/64 | 0.03~0.09 | 2.25 | 4.50 |
| 1 -1/8 x 5 | BN7025-112-500 | 1.149 | 1-13/16 | 2.093 | 3/4 | 1-7/64 | 0.03~0.09 | 2.50 | 5.00 |
| 1-1/8 x 5-1/2 | BN7025-112-550 | 1.149 | 1-13/16 | 2.093 | 3/4 | 1-7/32 | 0.03~0.09 | 2.50 | 5.50 |
| 1-1/4 x 6-1/2 | BN7025-125-650 | 1.277 | 2 | 2.309 | 27/32 | 1-7/32 | 0.03~0.09 | 2.75 | 6.50 |
| 1-1/2 x 7 | BN7025-150-700 | 1.531 | 2-3/8 | 2.742 | 1 | 1-15/32 | 0.03~0.09 | 3.25 | 7.00 |
| 1-1/2 x 7-1/2 | BN7025-150-750 | 1.531 | 2-3/8 | 2.742 | 1 | 1-15/32 | 0.03~0.09 | 3.25 | 7.50 |
| 1-1/2 x 8 | BN7025-150-800 | 1.531 | 2-3/8 | 2.742 | 1 | 1-15/32 | 0.03~0.09 | 3.25 | 8.00 |

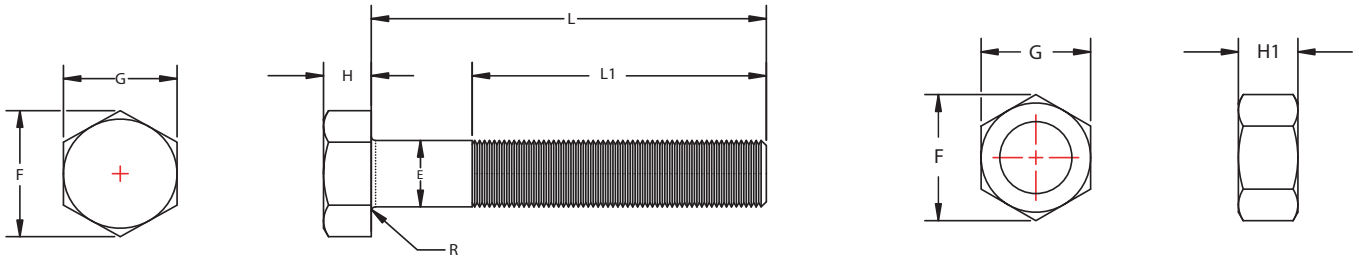
Packaged Bolt & Nut Packs (Water Resistant)

| Part No. | Class 125/150 Flange Size | Bolt Diameter and Length | No. of Bolts per Flange | No. of Bolts per Poly Bag | Master Box (Qty. of Sets) | Master Box Weight (Lbs.) |
|----------|---------------------------|--------------------------|-------------------------|---------------------------|---------------------------|--------------------------|
| FBZ015 | 1 | 1/2 x 2 | 4 | 4 | 64 | 20 |
| | 1-1/2 | | | | | |
| FBZ03 | 2 | 5/8 x 2-1/2 | 4 | 4 | 20 | 34 |
| | 2-1/2 | | | | | |
| FBZ04 | 3 | 5/8 x 3 | 8 | 8 | 16 | 55 |
| | 4 | | | | | |
| FBZ08 | 5 | 3/4 x 3-1/2 | 8 | 8 | 8 | 50 |
| | 6 | | | | | |
| FBZ12 | 8 | 7/8 x 4 | 12 | 12 | 4 | 55 |
| | 10 | | | | | |
| FBZ14 | 12 | 1 x 4-1/2 | 12 | 12 | 1 | 40 |
| | 14 | | | | | |
| FBZ16 | 16 | 1 x 4-1/2 | 16 | 16 | 1 | 52 |
| FBZ18 | 18 | 1-1/8 x 5 | 16 | 16 | 1 | 37 |
| FBZ20 | 20 | 1-1/8 x 5 | 20 | 20 | 1 | 44 |
| FBZ24 | 24 | 1-1/4 x 5-1/2 | 20 | 20 | 1 | 70 |
| FBZ30 | 30 | 1-1/4 x 6-1/2 | 28 | 14 | 2 boxes | 50 |
| FBZ36 | 36 | 1-1/2 x 7 | 32 | 8 | 4 boxes | 53 |
| FBZ42 | 42 | 1-1/2 x 7-1/2 | 36 | 9 | 4 boxes | |
| FBZ48 | 48 | 1-1/2 x 8 | 44 | 11 | 4 boxes | |

1. Heavy hex head steel bolts to ANSI B18.2.1 with heavy hex steel nuts to ANSI B18.2.2. Bolts to be threaded to ANSI B1.1 unified inch screw threads, class 2A external & Class 2B internal. The steel material to conform to ASTM A307s-pecification for carbon steel externally threaded standard fasteners, Grade B.
2. Zinc Plated per ASTM B633.



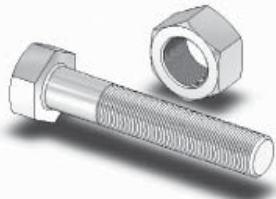
Stainless Steel Hex Bolts and Nuts For Flanges to B16.1-125#, B16.5-150# SS 304 and SS 316



| Nominal Size | Part No. | E | G | F | H | HI | R | L ₁ | L |
|---------------|-----------------|---------------|--------------------|---------------------------|------------------|------------|------------------|----------------|--------------|
| | | Body Diameter | Width Across Flats | Max. Width Across Corners | Bolt Head Height | Nut Height | Radius of Fillet | Thread Length | Shaft Length |
| 1/2 x 2 | BN6025-050-200* | 0.515 | 3/4 | 0.866 | 11/32 | 7/16 | 0.01-0.03 | 1.25 | 2.00 |
| 5/8 x 2-1/2 | BN6025-062-250* | 0.642 | 15/16 | 1.083 | 27/64 | 35/64 | 0.02-0.06 | 1.50 | 2.50 |
| 5/8 x 3 | BN6025-062-300* | 0.642 | 15/16 | 1.083 | 27/64 | 35/64 | 0.02-0.06 | 1.50 | 3.00 |
| 3/4 x 3-1/2 | BN6025-075-350* | 0.768 | 1-1/8 | 1.299 | 1/2 | 41/64 | 0.02-0.06 | 1.75 | 3.50 |
| 3/4 x 4-1/2 | BN6025-075-450* | 0.768 | 1-1/8 | 1.299 | 1/2 | 41/64 | 0.02-0.06 | 1.75 | 4.50 |
| 7/8 x 4 | BN6025-082-400* | 0.895 | 1-5/16 | 1.516 | 37/64 | 3/4 | 0.02-0.06 | 2.00 | 4.00 |
| 7/8 x 4-1/2 | BN6025-082-450* | 0.895 | 1-5/16 | 1.516 | 37/64 | 3/4 | 0.02-0.06 | 2.00 | 4.50 |
| 1 x 4-1/2 | BN6025-100-450* | 1.022 | 1-1/2 | 1.732 | 43/64 | 55/64 | 0.03-0.09 | 2.25 | 4.50 |
| 1-1/8 x 5 | BN6025-112-500* | 1.149 | 1-11/16 | 1.949 | 3/4 | 31/32 | 0.03-0.09 | 2.50 | 5.00 |
| 1-1/8 x 5-1/2 | BN6025-112-550* | 1.149 | 1-11/16 | 1.949 | 3/4 | 1-1/16 | 0.03-0.09 | 2.50 | 5.50 |
| 1-1/4 x 6-1/2 | BN6025-125-650* | 1.277 | 1-7/8 | 2.165 | 27/32 | 1-9/32 | 0.03-0.09 | 2.75 | 6.50 |
| 1-1/2 x 7 | BN6025-150-700* | 1.531 | 2-1/4 | 2.598 | 1 | 1-9/32 | 0.03-0.09 | 3.25 | 7.00 |
| 1-1/2 x 7-1/2 | BN6025-150-750* | 1.531 | 2-1/4 | 2.598 | 1 | 1-9/32 | 0.03-0.09 | 3.25 | 7.50 |
| 1-1/2 x 8 | BN6025-150-800* | 1.531 | 2-1/4 | 2.598 | 1 | 1-9/32 | 0.03-0.09 | 3.25 | 8.00 |

*Add suffix 304 or 316 to specify stainless steel type.

1. Hex head stainless steel bolts to ANSI B18.2.1 with hex stainless steel nuts to ANSI B18.2.2. Bolts to be threaded to ANSI B1.1 unified inch screw threads, Class 2A external & Class 2B internal. The stainless steel material is available in either Type 304 or Type 316.



Packaged Bolt & Nut Packs (Water Resistant)

Stainless Steel 304

| Part No. | Class 125/150 Flange Size | Bolt Diameter and Length | No. of Bolts per Flange | No. of Bolts per Poly Bag | Master Box (Qty. of Sets) |
|-----------|---------------------------|--------------------------|-------------------------|---------------------------|---------------------------|
| FBS03-304 | 2 2-1/2 | 5/8 x 2-1/2 | 4 | 4 | 20 |
| FBS04-304 | 3 4 | 5/8 x 3 | 8 | 8 | 16 |
| FBS08-304 | 5 6 | 3/4 x 3-1/2 | 8 | 8 | 8 |
| FBS12-304 | 8 10 12 | 7/8 x 4 | 12 | 12 | 4 |
| FBS14-304 | 14 | 1" x 4-1/2" | 12 | 12 | 1 |
| FBS16-304 | 16 | 1" x 4-1/2" | 16 | 16 | 1 |
| FBS18-304 | 18 | 1-1/8" x 5" | 16 | 16 | 1 |
| FBS20-304 | 20 | 1-1/8" x 5" | 20 | 20 | 1 |
| FBS24-304 | 24 | 1-1/4" x 5-1/2" | 20 | 20 | 1 |
| FBS30-304 | 30 | 1-1/4" x 6-1/2" | 28 | 14 | 2 boxes |
| FBS36-304 | 36 | 1-1/2" x 7" | 32 | 8 | 4 boxes |

Stainless Steel 316

| Part No. | Class 125/150 Flange Size | Bolt Diameter and Length | No. of Bolts per Flange | No. of Bolts per Poly Bag | Master Box (Qty. of Sets) |
|-----------|---------------------------|--------------------------|-------------------------|---------------------------|---------------------------|
| FBS03-316 | 2 2-1/2 | 5/8 x 2-1/2 | 4 | 4 | 20 |
| FBS04-316 | 3 4 | 5/8 x 3 | 8 | 8 | 16 |
| FBS08-316 | 5 6 | 3/4 x 3-1/2 | 8 | 8 | 8 |
| FBS12-316 | 8 10 12 | 7/8 x 4 | 12 | 12 | 4 |
| FBS14-316 | 14 | 1" x 4-1/2" | 12 | 12 | 1 |
| FBS16-316 | 16 | 1" x 4-1/2" | 16 | 16 | 1 |
| FBS18-316 | 18 | 1-1/8" x 5" | 16 | 16 | 1 |
| FBS20-316 | 20 | 1-1/8" x 5" | 20 | 20 | 1 |
| FBS24-316 | 24 | 1-1/4" x 5-1/2" | 20 | 20 | 1 |
| FBS30-316 | 30 | 1-1/4" x 6-1/2" | 28 | 14 | 2 boxes |
| FBS36-316 | 36 | 1-1/2" x 7" | 32 | 8 | 4 boxes |

Stud Bolts/Nuts

| STUD BOLTS | | | | NUTS | | | |
|-----------------|---------------------------------|-------------------|-------------------|----------|---------------------------------|-------------------|-------------------|
| Bolt Size | Part No. Zinc Plated (B7) | Part No. SS304 | Part No. SS316 | Nut Size | Part No. Zinc Plated (2H) | Part No. SS304 | Part No. SS316 |
| 1/2" x 2" | 8025-050-200 | 8025-050-200-304 | 8025-050-200-316 | 1/2" | 8035-050 | 8035-050-304 | 8035-050-316 |
| 5/8" x 2-1/2" | 8025-062-250 | 8025-062-250-304 | 8025-062-250-316 | 5/8" | 8035-062 | 8035-062-304 | 8035-062-316 |
| 5/8" x 3" | 8025-062-300 | 8025-062-300-304 | 8025-062-300-316 | | | | |
| 5/8" x 3-1/2" | 8025-062-350 | 8025-062-350-304 | 8025-062-350-316 | | | | |
| 5/8" x 6" | 8025-062-600 | 8025-062-600-304 | 8025-062-600-316 | | | | |
| 3/4" x 3" | 8025-075-300 | 8025-075-300-304 | 8025-075-300-316 | | | | |
| 3/4" x 3-1/2" | 8025-075-350 | 8025-075-350-304 | 8025-075-350-316 | 3/4" | 8035-075 | 8035-075-304 | 8035-075-316 |
| 3/4" x 4" | 8025-075-400 | 8025-075-400-304 | 8025-075-400-316 | | | | |
| 3/4" x 4-1/2" | 8025-075-450 | 8025-075-450-304 | 8025-075-450-316 | | | | |
| 3/4" x 5" | 8025-075-500 | 8025-075-500-304 | 8025-075-500-316 | | | | |
| 3/4" x 5-1/2" | 8025-075-550 | 8025-075-550-304 | 8025-075-550-316 | | | | |
| 3/4" x 6" | 8025-075-600 | 8025-075-600-304 | 8025-075-600-316 | | | | |
| 3/4" x 7" | 8025-075-700 | 8025-075-700-304 | 8025-075-700-316 | | | | |
| 7/8" x 3-1/2" | 8025-082-350 | 8025-082-350-304 | 8025-082-350-316 | 7/8" | 8035-082 | 8035-082-304 | 8035-082-316 |
| 7/8" x 3-3/4" | 8025-082-375 | 8025-082-375-304 | 8025-082-375-316 | | | | |
| 7/8" x 8" | 8025-082-800 | 8025-082-800-304 | 8025-082-800-316 | | | | |
| 1" x 4" | 8025-100-400 | 8025-100-400-304 | 8025-100-400-316 | 1" | 8035-100 | 8035-100-304 | 8035-100-316 |
| 1" x 5" | 8025-100-500 | 8025-100-500-304 | 8025-100-500-316 | | | | |
| 1" x 6" | 8025-100-600 | 8025-100-600-304 | 8025-100-600-316 | | | | |
| 1-1/8" x 4-1/2" | 8025-112-450 | 8025-112-450-304 | 8025-112-450-316 | 1-1/8" | 8035-112 | 8035-112-304 | 8035-112-316 |
| 1-1/8" x 5" | 8025-112-500 | 8025-112-500-304 | 8025-112-500-316 | | | | |
| 1-1/4" x 5" | 8025-125-500 | 8025-125-500-304 | 8025-125-500-316 | | | | |
| 1-1/4" x 6" | 8025-125-600 | 8025-125-600-304 | 8025-125-600-316 | 1-1/4" | 8035-125 | 8035-125-304 | 8035-125-316 |
| 1-1/4" x 7" | 8025-125-700 | 8025-125-700-304 | 8025-125-700-316 | | | | |
| 1-1/2" x 6" | 8025-150-600 | 8025-150-600-304 | 8025-150-600-316 | 1-1/2" | 8035-150 | 8035-150-304 | 8035-150-316 |
| 1-1/2" x 7" | 8025-150-700 | 8025-150-700-304 | 8025-150-700-316 | | | | |

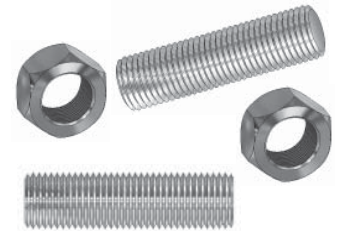
Material:

Bolts:

Zinc Plated Steel, Grade B7
Stainless Steel 304
Stainless Steel 316

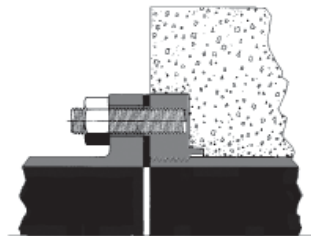
Nuts:

Zinc Plated Steel, Grade 2H
Stainless Steel 304
Stainless Steel 316

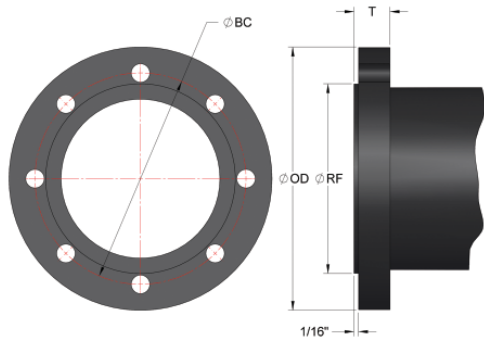


Packaged Flange Stud Bolt Packs for use with Class 125/150 Flange Pipe

| Part No. B7, 2H | Part No. SS304 | Part No. SS316 | Flange Size | Bolt Size | No. of Bolts/ Nuts per Flange | No. of Bolts/ Nuts per Polybag | Master Box (No. of Packs) |
|--------------------|-------------------|-------------------|----------------|-----------------|-------------------------------------|--------------------------------------|------------------------------|
| FSB03 | FSB03-304 | FSB03-316 | 2" | 5/8" x 3" | 4 | 4 | 20 |
| | | | 2-1/2" | | | | |
| | | | 3" | | | | |
| FSB04 | FSB04-304 | FSB04-316 | 4" | 5/8" x 3" | 8 | 8 | 16 |
| FSB08 | FSB08-304 | FSB08-316 | 5" | 3/4" x 3-1/2" | 8 | 8 | 8 |
| | | | 6" | | | | |
| | | | 8" | | | | |
| FSB12 | FSB12-304 | FSB12-316 | 10" | 7/8" x 3-1/2" | 12 | 12 | 4 |
| | | | 12" | | | | |
| FSB14 | FSB14-304 | FSB14-316 | 14" | 1" x 4" | 12 | 12 | 1 |
| FSB16 | FSB16-304 | FSB16-316 | 16" | 1" x 4" | 16 | 16 | 1 |
| FSB18 | FSB18-304 | FSB18-316 | 18" | 1-1/8" x 4-1/2" | 16 | 16 | 1 |
| FSB20 | FSB20-304 | FSB20-316 | 20" | 1-1/8" x 4-1/2" | 20 | 20 | 1 |
| FSB24 | FSB24-304 | FSB24-316 | 24" | 1-1/4" x 5" | 20 | 20 | 1 |
| FSB30 | FSB30-304 | FSB30-316 | 30" | 1-1/4" x 5" | 28 | 14 | 2 boxes (1pack each box) |
| FSB36 | FSB36-304 | FSB36-316 | 36" | 1-1/2" x 6" | 32 | 8 | 4 boxes (1pack each box) |
| FSB42 | FSB42-304 | FSB42-316 | 42" | 1-1/2" x 6" | 36 | 9 | 4 boxes (1pack each box) |
| FSB48 | FSB48-304 | FSB48-316 | 48" | 1-1/2" x 7" | 44 | 11 | 4 boxes (1pack each box) |

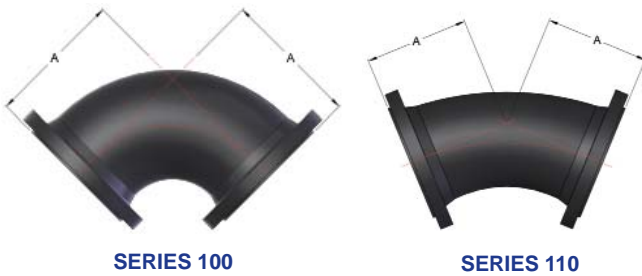


FLANGE DETAILS - Class 250



| Size | OD | T | RF | BC | Bolt Hole Dia. | Bolt Dia. & Length | No. of Bolts |
|------|--------|------|----------|--------|----------------|--------------------|--------------|
| 3 | 8-1/4 | 1.12 | 5-11/16 | 6-5/8 | 7/8 | 3/4 x 3-1/2 | 8 |
| 4 | 10 | 1.25 | 6-15/16 | 7-7/8 | 7/8 | 3/4 x 3-3/4 | 8 |
| 5 | 11 | 1.38 | 8-5/16 | 9-1/4 | 7/8 | 3/4 x 4 | 8 |
| 6 | 12-1/2 | 1.44 | 9-11/16 | 10-5/8 | 7/8 | 3/4 x 4 | 12 |
| 8 | 15 | 1.62 | 11-15/16 | 13 | 1 | 7/8 x 4-1/4 | 12 |
| 10 | 17-1/2 | 1.88 | 14-1/16 | 15-1/4 | 1-1/8 | 1 x 5-1/4 | 16 |
| 12 | 20-1/2 | 2.00 | 16-7/16 | 17-3/4 | 1-1/4 | 1-1/8 x 5-1/2 | 16 |

ELBOWS



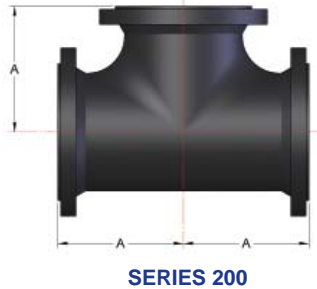
| Size | 90° Elbow | | | 45° Elbow | | |
|------|------------|--------|------|------------|-------|------|
| | Part No. | A | Wgt. | Part No. | A | Wgt. |
| 3 | 100F-0303- | 6 | 40 | 110F-0303- | 3-1/2 | 35 |
| 4 | 100F-0404- | 7 | 66 | 110F-0404- | 4-1/2 | 60 |
| 6 | 100F-0606- | 8-1/2 | 124 | 110F-0606- | 5-1/2 | 103 |
| 8 | 100F-0808- | 10 | 192 | 110F-0808- | 6 | 158 |
| 10 | 100F-1010- | 11-1/2 | 311 | 110F-1010- | 7 | 247 |
| 12 | 100F-1212- | 13 | 430 | 110F-1212- | 8 | 355 |

90° REDUCING ELBOW



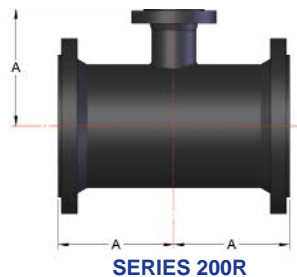
| Size | Part No. | A | Weight |
|--------|------------|--------|--------|
| 6 x 4 | 100F-0604- | 8-1/2 | 95 |
| 8 x 6 | 100F-0806- | 10 | 161 |
| 10 x 8 | 100F-1008- | 11-1/2 | 240 |

TEES



| Size | Part No. | A | Weight |
|------|------------|--------|--------|
| 3 | 200F-0303- | 6 | 58 |
| 4 | 200F-0404- | 7 | 98 |
| 6 | 200F-0606- | 8-1/2 | 184 |
| 8 | 200F-0808- | 10 | 280 |
| 10 | 200F-1010- | 11-1/2 | 435 |
| 12 | 200F-1212- | 13 | 599 |

REDUCING TEES

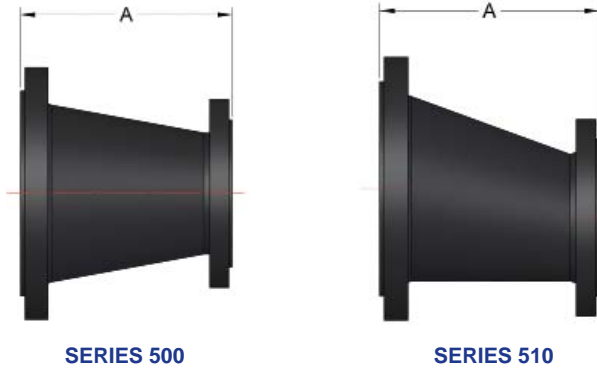


| Size | Part No. | A | Weight |
|-------------|------------|--------|--------|
| 6 x 6 x 4 | 200F-0604- | 8-1/2 | 150 |
| 8 x 8 x 6 | 200F-0806- | 10 | 246 |
| 10 x 10 x 6 | 200F-1006- | 11-1/2 | 375 |
| 10 x 10 x 8 | 200F-1008- | 11-1/2 | 405 |
| 12 x 12 x 6 | 200F-1206- | 13 | 435 |
| 12 x 12 x 8 | 200F-1208- | 13 | 445 |

Add suffix "C" for Grey Cast Iron - "D" for Ductile Cast Iron

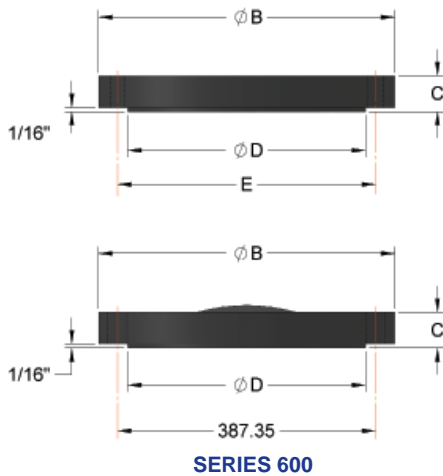
Larger sizes thru 48" available upon request.

REDUCERS (Concentric/Eccentric)



| Size | Part No. (Concentric) | Part No. (Eccentric) | A | Weight |
|---------|-----------------------|----------------------|----|--------|
| 4 x 3 | 500F-0403- | 510F-0403- | 7 | 40 |
| 6 x 3 | 500F-0603- | 510F-0603- | 9 | 70 |
| 6 x 4 | 500F-0604- | 510F-0604- | 9 | 77 |
| 6 x 5 | 500F-0605- | 510F-0605- | 9 | 85 |
| 8 x 5 | 500F-0805- | 510F-0805- | 11 | 135 |
| 8 x 6 | 500F-0806- | 510F-0806- | 11 | 142 |
| 10 x 6 | 500F-1006- | 510F-1006- | 12 | 185 |
| 10 x 8 | 500F-1008- | 510F-1008- | 12 | 196 |
| 12 x 6 | 500F-1206- | 510F-1206- | 14 | 235 |
| 12 x 8 | 500F-1208- | 510F-1208- | 14 | 260 |
| 12 x 10 | 500F-1210- | 510F-1210- | 14 | 275 |

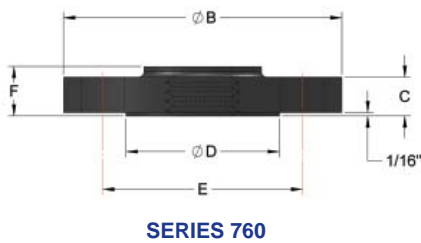
BLIND FLANGES



| Nominal Pipe Size | Flange Size | Part No. | C | B | D | E | Weight |
|-------------------|-------------|------------|--------|--------|---------|--------|--------|
| 3 | 3 x 8-1/4 | 600F-0303- | 1-3/16 | 8-1/4 | 5-11/16 | 6-5/8 | 14 |
| 4 | 4 x 10 | 600F-0404- | 1-1/4 | 10 | 6-15/16 | 7-7/8 | 25 |
| 6 | 6 x 12-1/2 | 600F-0606- | 1-7/16 | 12-1/2 | 9-11/16 | 10-5/8 | 43 |
| 8 | 8 x 15 | 600F-0808- | 1-5/8 | 15 | 1-15/16 | 13 | 69 |
| 10 | 10 x 17-1/2 | 600F-1010- | 1-7/8 | 17-1/2 | 14-1/16 | 15-1/4 | 100 |
| 12 | 12 x 20-1/2 | 600F-1212- | 2 | 20-1/2 | 16-7/16 | 17-3/4 | 148 |

Dished faces for use with 10" and 12" extra heavy Blind Flanges.

THREADED FLANGES



| Nominal Pipe Size | Flange Size | Part No. | C | B | D | E | F | Weight |
|-------------------|---------------|-----------------|--------|--------|----------|--------|---------|--------|
| 1 | 1 x 4-7/8 | 760F-0100-0488- | 11/16 | 4-7/8 | 2-11/16 | 3-1/2 | 7/8 | 3 |
| 1-1/4 | 1-1/4 x 5-1/2 | 760F-0125-0525- | 3/4 | 5-1/4 | 3-1/16 | 3-7/8 | 1 | 4 |
| 1-1/2 | 1-1/2 x 6-1/8 | 760F-0150-0612- | 13/16 | 6-1/8 | 3-5/16 | 4-1/2 | 1-1/8 | 6 |
| 2 | 2 x 6-1/2 | 760F-0200-0650- | 7/8 | 6-1/2 | 4-3/16 | 5 | 1-3/4 | 7 |
| 2-1/2 | 2-1/2 x 7-1/2 | 760F-0250-0750- | 1 | 7-1/2 | 4-15/16 | 5-7/8 | 1-7/16 | 10 |
| 3 | 3 x 8-1/4 | 760F-0300-0825- | 1-1/8 | 8-1/4 | 5-11/16 | 6-5/8 | 1-11/16 | 12.8 |
| 4 | 4 x 10 | 760F-0400-1000- | 1-1/4 | 10 | 6-15/16 | 7-7/8 | 1-3/4 | 22.5 |
| 6 | 6 x 12-1/2 | 760F-0600-1250- | 1-7/16 | 12-1/2 | 9-11/16 | 10-5/8 | 1-15/16 | 34.2 |
| 8 | 8 x 15 | 760F-0800-1500- | 1-5/8 | 15 | 11-15/16 | 13 | 2-3/16 | 55 |
| 10 | 10 x 17-1/2 | 760F-1000-1750- | 1-7/8 | 17-1/2 | 14-1/16 | 15-1/4 | 2-3/8 | 77 |
| 12 | 12 x 20-1/2 | 760F-1200-2050- | 2 | 20-1/2 | 16-7/16 | 17-3/4 | 2-9/16 | 103 |

Add suffix "C" for Grey Cast Iron - "D" for Ductile Cast Iron

Larger sizes thru 48" available upon request.



c **UL** **US**
LISTED

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