

# Malleable Iron Threaded Fittings





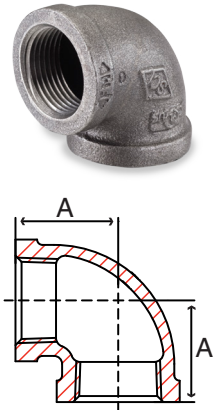
# Malleable Iron Threaded Fittings

## Class 150 and Class 300 Specifications

-  branded Class 150 fittings are UL Listed and FM Approved at 300 psi
-  branded Class 300 fittings are UL Listed
- Hot-dipped galvanized fittings are certified to; NSF/ANSI 61-4 and California AB1953 Lead Free
- Canadian Registration Numbers available at [www.smithcooper.com](http://www.smithcooper.com)
- Malleable castings conform to ASTM A197
- Hot-dipped galvanized fittings conform to ASTM A153
- Malleable fitting dimensions conform to ASME B16.3
- Malleable bushings, plugs and locknuts conform to ASME B16.14
- Malleable unions conform to ASME B16.39
- NPT threads on all fittings conform to ASME B1.20.1
- Independent lab verification that fittings meet applicable chemical & mechanical properties
- Manufacturing facilities are ISO 9001:2008 and ISO 14001
-  branded fittings are 100% air tested
- ProPak™ Packaging

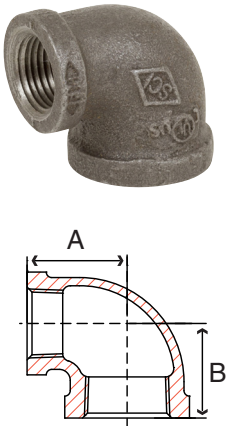


**Fig. 33E 1 & 34E 1 – 90° Elbow**

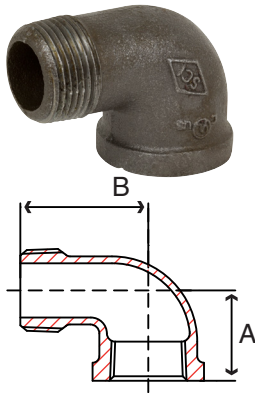


| Size<br>in | Part Number |            | A<br>in | Packing |        | Weight<br>lb |
|------------|-------------|------------|---------|---------|--------|--------------|
|            | Black       | Galvanized |         | Inner   | Master |              |
| 1/8        | 33E 1001C   | 34E 1001C  | 0.69    | 50      | 800    | 0.1          |
| 1/4        | 33E 1002C   | 34E 1002C  | 0.81    | 35      | 560    | 0.1          |
| 3/8        | 33E 1003C   | 34E 1003C  | 0.95    | 45      | 360    | 0.2          |
| 1/2        | 33E 1004C   | 34E 1004C  | 1.12    | 50      | 200    | 0.2          |
| 3/4        | 33E 1006C   | 34E 1006C  | 1.31    | 35      | 140    | 0.3          |
| 1          | 33E 1010C   | 34E 1010C  | 1.50    | 20      | 80     | 0.6          |
| 1-1/4      | 33E 1012C   | 34E 1012C  | 1.75    | 20      | 40     | 0.9          |
| 1-1/2      | 33E 1014C   | 34E 1014C  | 1.94    | 15      | 30     | 1.2          |
| 2          | 33E 1020C   | 34E 1020C  | 2.25    | 8       | 16     | 1.8          |
| 2-1/2      | 33E 1024C   | 34E 1024C  | 2.70    | 6       | 12     | 3.1          |
| 3          | 33E 1030C   | 34E 1030C  | 3.08    | -       | 7      | 3.9          |
| 3-1/2      | 33E 1034C   | 34E 1034C  | 3.42    | -       | 4      | 6.6          |
| 4          | 33E 1040C   | 34E 1040C  | 3.79    | -       | 3      | 7.5          |
| 5          | 33E 1050C   | 34E 1050C  | 4.50    | -       | 2      | 13.2         |
| 6          | 33E 1060C   | 34E 1060C  | 5.13    | -       | 1      | 19.8         |
| 8          | 33E 1080C   | 34E 1080C  | 6.38    | -       | 1      | 32.0         |

**Fig. 33RE1 & 34RE1 – 90° Reducing Elbow**



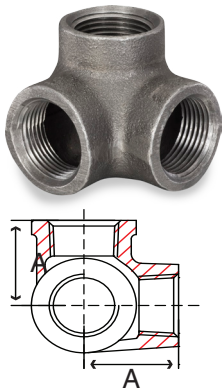
| Size<br>in    | Part Number  |              | A<br>in | B<br>in | Packing |        | Weight<br>lb |
|---------------|--------------|--------------|---------|---------|---------|--------|--------------|
|               | Black        | Galvanized   |         |         | Inner   | Master |              |
| 1/4 x 1/8     | 33RE1002001C | 34RE1002001C | 0.76    | 0.74    | 40      | 640    | 0.2          |
| 3/8 x 1/8     | 33RE1003001C | 34RE1003001C | 0.85    | 0.81    | 70      | 560    | 0.2          |
| 3/8 x 1/4     | 33RE1003002C | 34RE1003002C | 0.90    | 0.88    | 60      | 480    | 0.2          |
| 1/2 x 1/8     | 33RE1004001C | 34RE1004001C | 0.98    | 0.96    | 50      | 400    | 0.2          |
| 1/2 x 1/4     | 33RE1004002C | 34RE1004002C | 0.98    | 0.97    | 40      | 320    | 0.2          |
| 1/2 x 3/8     | 33RE1004003C | 34RE1004003C | 1.04    | 1.03    | 50      | 200    | 0.2          |
| 3/4 x 1/8     | 33RE1006001C | 34RE1006001C | 1.08    | 1.02    | 40      | 160    | 0.3          |
| 3/4 x 1/4     | 33RE1006002C | 34RE1006002C | 1.08    | 1.05    | 40      | 160    | 0.3          |
| 3/4 x 3/8     | 33RE1006003C | 34RE1006003C | 1.13    | 1.12    | 40      | 160    | 0.3          |
| 3/4 x 1/2     | 33RE1006004C | 34RE1006004C | 1.22    | 1.20    | 40      | 160    | 0.3          |
| 1 x 1/4       | 33RE1010002C | 34RE1010002C | 1.22    | 1.10    | 25      | 300    | 0.3          |
| 1 x 3/8       | 33RE1010003C | 34RE1010003C | 1.27    | 1.18    | 25      | 100    | 0.5          |
| 1 x 1/2       | 33RE1010004C | 34RE1010004C | 1.36    | 1.26    | 25      | 100    | 0.4          |
| 1 x 3/4       | 33RE1010006C | 34RE1010006C | 1.45    | 1.37    | 25      | 100    | 0.5          |
| 1-1/4 x 1/2   | 33RE1012004C | 34RE1012004C | 1.53    | 1.34    | 20      | 80     | 0.6          |
| 1-1/4 x 3/4   | 33RE1012006C | 34RE1012006C | 1.62    | 1.45    | 15      | 60     | 0.7          |
| 1-1/4 x 1     | 33RE1012010C | 34RE1012010C | 1.67    | 1.58    | 10      | 40     | 0.8          |
| 1-1/2 x 1/2   | 33RE1014004C | 34RE1014004C | 1.75    | 1.52    | 15      | 60     | 0.8          |
| 1-1/2 x 3/4   | 33RE1014006C | 34RE1014006C | 1.75    | 1.52    | 10      | 40     | 0.8          |
| 1-1/2 x 1     | 33RE1014010C | 34RE1014010C | 1.80    | 1.65    | 10      | 40     | 0.9          |
| 1-1/2 x 1-1/4 | 33RE1014012C | 34RE1014012C | 1.88    | 1.82    | 8       | 32     | 1.1          |
| 2 x 1/2       | 33RE1020004C | 34RE1020004C | 1.97    | 1.60    | 10      | 40     | 1.2          |
| 2 x 3/4       | 33RE1020006C | 34RE1020006C | 1.97    | 1.60    | 10      | 40     | 1.2          |
| 2 x 1         | 33RE1020010C | 34RE1020010C | 2.02    | 1.73    | 14      | 28     | 1.5          |
| 2 x 1-1/4     | 33RE1020012C | 34RE1020012C | 2.10    | 1.90    | 10      | 20     | 1.5          |
| 2 x 1-1/2     | 33RE1020014C | 34RE1020014C | 2.16    | 2.02    | 10      | 20     | 1.6          |
| 2-1/2 x 3/4   | 33RE1024006C | 34RE1024006C | 2.30    | 1.73    | 10      | 20     | 1.9          |
| 2-1/2 x 1     | 33RE1024010C | 34RE1024010C | 2.36    | 1.87    | 8       | 16     | 2.1          |
| 2-1/2 x 1-1/4 | 33RE1024012C | 34RE1024012C | 2.44    | 2.03    | 8       | 16     | 2.2          |
| 2-1/2 x 1-1/2 | 33RE1024014C | 34RE1024014C | 2.51    | 2.16    | 8       | 16     | 2.3          |
| 2-1/2 x 2     | 33RE1024020C | 34RE1024020C | 2.60    | 2.39    | 8       | 16     | 2.6          |
| 3 x 1/2       | 33RE1030004C | 34RE1030004C | 2.56    | 1.69    | 10      | 20     | 6.0          |
| 3 x 3/4       | 33RE1030006C | 34RE1030006C | 2.60    | 1.87    | 8       | 16     | 6.6          |
| 3 x 1         | 33RE1030010C | 34RE1030010C | 2.66    | 1.99    | 8       | 16     | 2.4          |
| 3 x 1-1/4     | 33RE1030012C | 34RE1030012C | 2.74    | 2.16    | 5       | 10     | 6.0          |
| 3 x 1-1/2     | 33RE1030014C | 34RE1030014C | 2.80    | 2.28    | -       | 8      | 2.5          |
| 3 x 2         | 33RE1030020C | 34RE1030020C | 2.89    | 2.52    | -       | 8      | 2.7          |
| 3 x 2-1/2     | 33RE1030024C | 34RE1030024C | 2.99    | 2.83    | -       | 8      | 4.0          |
| 4 x 1-1/2     | 33RE1040014C | 34RE1040014C | 2.31    | 2.50    | -       | 5      | 4.7          |
| 4 x 2         | 33RE1040020C | 34RE1040020C | 3.41    | 2.74    | -       | 5      | 5.1          |
| 4 x 2-1/2     | 33RE1040024C | 34RE1040024C | 3.50    | 3.05    | -       | 5      | 6.3          |
| 4 x 3         | 33RE1040030C | 34RE1040030C | 3.60    | 3.30    | -       | 5      | 6.6          |



**Fig. 33SE1 & 34SE1 – 90° Street Elbow**

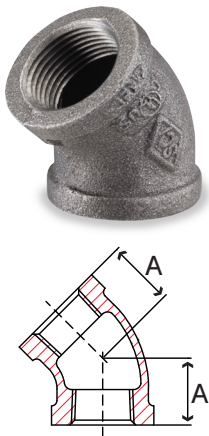
| Size<br>in | Part Number |            | A<br>in | B<br>in | Packing |        | Weight<br>lb |
|------------|-------------|------------|---------|---------|---------|--------|--------------|
|            | Black       | Galvanized |         |         | Inner   | Master |              |
| 1/8        | 33SE1001C   | 34SE1001C  | 0.69    | 1.00    | 60      | 960    | 0.05         |
| 1/4        | 33SE1002C   | 34SE1002C  | 0.81    | 1.19    | 35      | 560    | 0.1          |
| 3/8        | 33SE1003C   | 34SE1003C  | 0.95    | 1.44    | 40      | 320    | 0.2          |
| 1/2        | 33SE1004C   | 34SE1004C  | 1.12    | 1.61    | 120     | 240    | 0.2          |
| 3/4        | 33SE1006C   | 34SE1006C  | 1.30    | 1.89    | 70      | 140    | 0.3          |
| 1          | 33SE1010C   | 34SE1010C  | 1.50    | 2.13    | 40      | 80     | 0.6          |
| 1-1/4      | 33SE1012C   | 34SE1012C  | 1.75    | 2.44    | 25      | 50     | 0.8          |
| 1-1/2      | 33SE1014C   | 34SE1014C  | 1.94    | 2.67    | 8       | 32     | 1.2          |
| 2          | 33SE1020C   | 34SE1020C  | 2.25    | 3.27    | 8       | 16     | 2.0          |
| 2-1/2      | 33SE1024C   | 34SE1024C  | 2.70    | 3.86    | -       | 10     | 3.6          |
| 3          | 33SE1030C   | 34SE1030C  | 3.08    | 4.51    | -       | 7      | 4.2          |
| 4          | 33SE1040C   | 34SE1040C  | 3.79    | 5.69    | -       | 3      | 9.1          |
| 6          | 33SE1060C   | 34SE1060C  | 5.13    | 8.03    | -       | 1      | 23.1         |

All male threads come with plastic protective caps



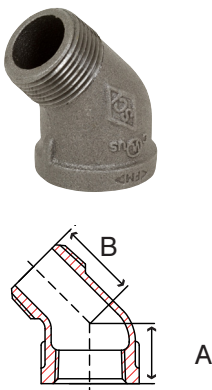
**Fig. 330E1 & 340E1 – 90° Side Outlet Elbow**

| Size<br>in | Part Number |            | A<br>in | Packing |        | Weight<br>lb |
|------------|-------------|------------|---------|---------|--------|--------------|
|            | Black       | Galvanized |         | Inner   | Master |              |
| 1/8        | 33OE1001C   | 34OE1001C  | 0.69    | 45      | 720    | 0.1          |
| 1/4        | 33OE1002C   | 34OE1002C  | 0.81    | 50      | 400    | 0.2          |
| 3/8        | 33OE1003C   | 34OE1003C  | 0.95    | 50      | 200    | 0.2          |
| 1/2        | 33OE1004C   | 34OE1004C  | 1.12    | 45      | 180    | 0.2          |
| 3/4        | 33OE1006C   | 34OE1006C  | 1.31    | 20      | 80     | 0.4          |
| 1          | 33OE1010C   | 34OE1010C  | 1.50    | 20      | 40     | 0.7          |
| 1-1/4      | 33OE1012C   | 34OE1012C  | 1.75    | 15      | 30     | 1.1          |
| 1-1/2      | 33OE1014C   | 34OE1014C  | 1.94    | 12      | 24     | 1.3          |
| 2          | 33OE1020C   | 34OE1020C  | 2.25    | -       | 12     | 2.5          |



**Fig. 33F 1 & 34F 1 – 45° Elbow**

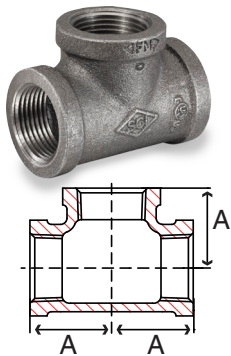
| Size<br>in | Part Number |            | A<br>in | Packing |        | Weight<br>lb |
|------------|-------------|------------|---------|---------|--------|--------------|
|            | Black       | Galvanized |         | Inner   | Master |              |
| 1/8        | 33F 1001C   | 34F 1001C  | 0.60    | 50      | 800    | 0.1          |
| 1/4        | 33F 1002C   | 34F 1002C  | 0.73    | 30      | 480    | 0.1          |
| 3/8        | 33F 1003C   | 34F 1003C  | 0.80    | 50      | 400    | 0.1          |
| 1/2        | 33F 1004C   | 34F 1004C  | 0.88    | 50      | 200    | 0.2          |
| 3/4        | 33F 1006C   | 34F 1006C  | 0.98    | 40      | 160    | 0.3          |
| 1          | 33F 1010C   | 34F 1010C  | 1.12    | 20      | 80     | 0.5          |
| 1-1/4      | 33F 1012C   | 34F 1012C  | 1.29    | 20      | 40     | 0.7          |
| 1-1/2      | 33F 1014C   | 34F 1014C  | 1.43    | 8       | 32     | 1.1          |
| 2          | 33F 1020C   | 34F 1020C  | 1.68    | 12      | 24     | 1.7          |
| 2-1/2      | 33F 1024C   | 34F 1024C  | 1.95    | -       | 15     | 2.9          |
| 3          | 33F 1030C   | 34F 1030C  | 2.17    | -       | 10     | 3.4          |
| 4          | 33F 1040C   | 34F 1040C  | 2.61    | -       | 3      | 6.4          |
| 5          | 33F 1050C   | 34F 1050C  | 3.05    | -       | 2      | 12.1         |
| 6          | 33F 1060C   | 34F 1060C  | 3.46    | -       | 1      | 15.4         |
| 8          | 33F 1080C   | 34F 1080C  | 4.00    | -       | 1      | 26.0         |



**Fig. 33SF1 & 34SF1 – 45° Street Elbow**

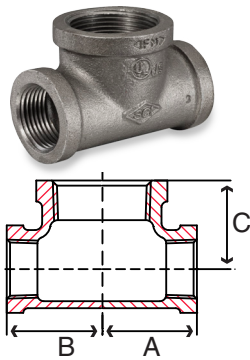
| Size<br>in | Part Number |            | A<br>in | B<br>in | Packing |        | Weight<br>lb |
|------------|-------------|------------|---------|---------|---------|--------|--------------|
|            | Black       | Galvanized |         |         | Inner   | Master |              |
| 1/8        | 33SF1001C   | 34SF1001C  | 0.65    | 0.85    | 70      | 1120   | 0.1          |
| 1/4        | 33SF1002C   | 34SF1002C  | 0.73    | 0.94    | 40      | 640    | 0.1          |
| 3/8        | 33SF1003C   | 34SF1003C  | 0.80    | 1.03    | 40      | 480    | 0.1          |
| 1/2        | 33SF1004C   | 34SF1004C  | 0.88    | 1.15    | 65      | 260    | 0.2          |
| 3/4        | 33SF1006C   | 34SF1006C  | 0.98    | 1.29    | 40      | 160    | 0.3          |
| 1          | 33SF1010C   | 34SF1010C  | 1.12    | 1.47    | 25      | 100    | 0.5          |
| 1-1/4      | 33SF1012C   | 34SF1012C  | 1.29    | 1.71    | 10      | 40     | 0.8          |
| 1-1/2      | 33SF1014C   | 34SF1014C  | 1.43    | 1.88    | 10      | 40     | 0.9          |
| 2          | 33SF1020C   | 34SF1020C  | 1.68    | 2.22    | 12      | 24     | 1.5          |
| 2-1/2      | 33SF1024C   | 34SF1024C  | 1.95    | 2.57    | 5       | 10     | 2.7          |
| 3          | 33SF1030C   | 34SF1030C  | 2.17    | 3.00    | -       | 6      | 3.6          |
| 4          | 33SF1040C   | 34SF1040C  | 2.61    | 3.70    | -       | 4      | 9.2          |

**Fig. 33T 1 & 34T 1 – Tee**



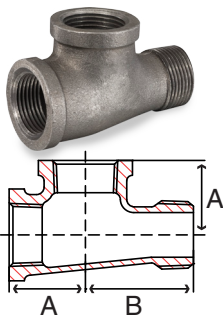
| Size<br>in | Part Number |            | A<br>in | Packing |        | Weight<br>lb |
|------------|-------------|------------|---------|---------|--------|--------------|
|            | Black       | Galvanized |         | Inner   | Master |              |
| 1/8        | 33T 1001C   | 34T 1001C  | 0.69    | 80      | 640    | 0.1          |
| 1/4        | 33T 1002C   | 34T 1002C  | 0.81    | 45      | 360    | 0.1          |
| 3/8        | 33T 1003C   | 34T 1003C  | 0.95    | 25      | 200    | 0.2          |
| 1/2        | 33T 1004C   | 34T 1004C  | 1.12    | 35      | 140    | 0.3          |
| 3/4        | 33T 1006C   | 34T 1006C  | 1.31    | 20      | 80     | 0.5          |
| 1          | 33T 1010C   | 34T 1010C  | 1.50    | 25      | 50     | 0.8          |
| 1-1/4      | 33T 1012C   | 34T 1012C  | 1.75    | 14      | 28     | 1.2          |
| 1-1/2      | 33T 1014C   | 34T 1014C  | 1.94    | 12      | 24     | 1.6          |
| 2          | 33T 1020C   | 34T 1020C  | 2.25    | -       | 15     | 2.5          |
| 2-1/2      | 33T 1024C   | 34T 1024C  | 2.70    | -       | 10     | 4.2          |
| 3          | 33T 1030C   | 34T 1030C  | 3.08    | -       | 6      | 6.1          |
| 3-1/2      | 33T 1034C   | 34T 1034C  | 3.42    | -       | 2      | 9.4          |
| 4          | 33T 1040C   | 34T 1040C  | 3.79    | -       | 2      | 9.7          |
| 5          | 33T 1050C   | 34T 1050C  | 4.50    | -       | 2      | 15.4         |
| 6          | 33T 1060C   | 34T 1060C  | 5.13    | -       | 1      | 26.4         |
| 8          | 33T 1080C   | 34T 1080C  | 6.50    | -       | 1      | 50.7         |

**Fig. 33BT1 & 34BT1 – Bull Head Tee**



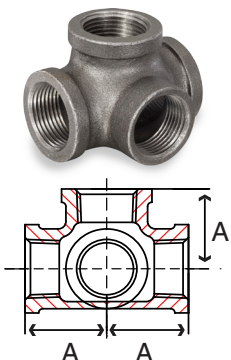
| Size<br>in    | Part Number  |              | A<br>in | B<br>in | C<br>in | Packing |        | Weight<br>lb |
|---------------|--------------|--------------|---------|---------|---------|---------|--------|--------------|
|               | Black        | Galvanized   |         |         |         | Inner   | Master |              |
| 1/4 x 3/8     | 33BT1002003C | 34BT1002003C | 0.90    | 0.90    | 0.88    | 20      | 240    | 0.3          |
| 1/2 x 3/4     | 33BT1004006C | 34BT1004006C | 1.22    | 1.22    | 1.20    | 25      | 100    | 0.3          |
| 1/2 x 1       | 33BT1004010C | 34BT1004010C | 1.36    | 1.36    | 1.26    | 40      | 80     | 0.5          |
| 3/4 x 1       | 33BT1006010C | 34BT1006010C | 1.45    | 1.45    | 1.37    | 15      | 60     | 0.5          |
| 3/4 x 1-1/4   | 33BT1006012C | 34BT1006012C | 1.62    | 1.62    | 1.45    | 20      | 40     | 0.7          |
| 1 x 1-1/4     | 33BT1010012C | 34BT1010012C | 1.67    | 1.67    | 1.58    | 8       | 32     | 0.9          |
| 1 x 1-1/2     | 33BT1010014C | 34BT1010014C | 1.80    | 1.80    | 1.65    | 15      | 30     | 1.1          |
| 1 x 2         | 33BT1010020C | 34BT1010020C | 2.02    | 2.02    | 1.73    | 12      | 24     | 1.2          |
| 1-1/4 x 1-1/2 | 33BT1012014C | 34BT1012014C | 1.88    | 1.88    | 1.82    | 10      | 20     | 1.3          |
| 1-1/4 x 2     | 33BT1012020C | 34BT1012020C | 2.10    | 2.10    | 1.90    | 8       | 16     | 1.8          |
| 1-1/2 x 2     | 33BT1014020C | 34BT1014020C | 2.16    | 2.16    | 2.02    | 8       | 16     | 1.7          |
| 2 x 2-1/2     | 33BT1020024C | 34BT1020024C | 2.60    | 2.60    | 2.39    | 6       | 12     | 3.0          |
| 2 x 3         | 33BT1020030C | 34BT1020030C | 2.88    | 2.88    | 2.55    | -       | 6      | 4.0          |
| 2-1/2 x 3     | 33BT1024030C | 34BT1024030C | 3.00    | 3.00    | 2.83    | -       | 6      | 5.8          |
| 3 x 4         | 33BT1030040C | 34BT1030040C | 3.60    | 3.60    | 3.30    | -       | 2      | 8.6          |

**Fig. 33ST1 & 34ST1 – Service Tee**

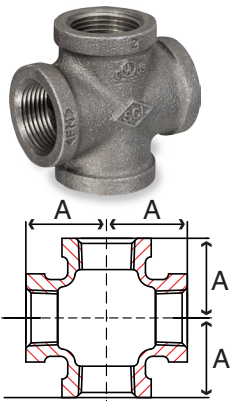


| Size<br>in | Part Number |            | A<br>in | B<br>in | Packing |        | Weight<br>lb |
|------------|-------------|------------|---------|---------|---------|--------|--------------|
|            | Black       | Galvanized |         |         | Inner   | Master |              |
| 1/2        | 33ST1004C   | 34ST1004C  | 1.12    | 1.63    | 40      | 160    | 0.3          |
| 3/4        | 33ST1006C   | 34ST1006C  | 1.31    | 1.89    | 25      | 100    | 0.5          |
| 1          | 33ST1010C   | 34ST1010C  | 1.50    | 2.14    | 30      | 60     | 0.8          |
| 1-1/4      | 33ST1012C   | 34ST1012C  | 1.75    | 2.45    | 15      | 30     | 1.2          |
| 1-1/2      | 33ST1014C   | 34ST1014C  | 1.94    | 2.69    | 10      | 20     | 1.7          |
| 2          | 33ST1020C   | 34ST1020C  | 2.25    | 3.26    | 6       | 12     | 2.0          |

**Fig. 33OT1 & 34OT1 – Side Outlet Tee**

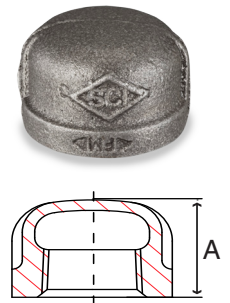


| Size<br>in | Part Number |            | A<br>in | Packing |        | Weight<br>lb |
|------------|-------------|------------|---------|---------|--------|--------------|
|            | Black       | Galvanized |         | Inner   | Master |              |
| 1/2        | 33OT1004C   | 34OT1004C  | 1.12    | 20      | 80     | 0.2          |
| 3/4        | 33OT1006C   | 34OT1006C  | 1.31    | 15      | 60     | 0.4          |
| 1          | 33OT1010C   | 34OT1010C  | 1.50    | 25      | 50     | 0.7          |
| 1-1/4      | 33OT1012C   | 34OT1012C  | 1.75    | 12      | 24     | 1.1          |
| 1-1/2      | 33OT1014C   | 34OT1014C  | 1.94    | 8       | 16     | 1.4          |
| 2          | 33OT1020C   | 34OT1020C  | 2.25    | -       | 10     | 2.7          |



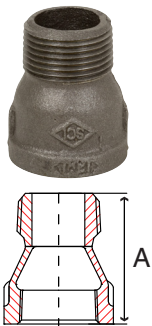
**Fig. 33X 1 & 34X 1 – Cross**

| Size<br>in | Part Number |            | A<br>in | Packing |        | Weight<br>lb |
|------------|-------------|------------|---------|---------|--------|--------------|
|            | Black       | Galvanized |         | Inner   | Master |              |
| 1/8        | 33X 1001C   | 34X 1001C  | 0.69    | 20      | 320    | 0.2          |
| 1/4        | 33X 1002C   | 34X 1002C  | 0.81    | 40      | 320    | 0.2          |
| 3/8        | 33X 1003C   | 34X 1003C  | 0.95    | 40      | 160    | 0.3          |
| 1/2        | 33X 1004C   | 34X 1004C  | 1.12    | 30      | 120    | 0.3          |
| 3/4        | 33X 1006C   | 34X 1006C  | 1.31    | 20      | 80     | 0.6          |
| 1          | 33X 1010C   | 34X 1010C  | 1.50    | 20      | 40     | 1.1          |
| 1-1/4      | 33X 1012C   | 34X 1012C  | 1.75    | -       | 20     | 1.4          |
| 1-1/2      | 33X 1014C   | 34X 1014C  | 1.94    | -       | 18     | 1.9          |
| 2          | 33X 1020C   | 34X 1020C  | 2.25    | -       | 10     | 2.8          |
| 2-1/2      | 33X 1024C   | 34X 1024C  | 2.70    | -       | 6      | 5.0          |
| 3          | 33X 1030C   | 34X 1030C  | 3.08    | -       | 4      | 7.3          |
| 4          | 33X 1040C   | 34X 1040C  | 3.79    | -       | 2      | 12.6         |



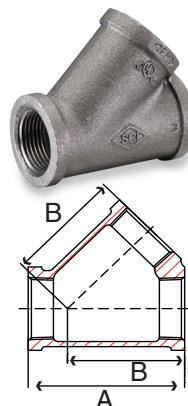
**Fig. 33C 1 & 34C 1 – Cap**

| Size<br>in | Part Number |            | A<br>in | Packing |        | Weight<br>lb |
|------------|-------------|------------|---------|---------|--------|--------------|
|            | Black       | Galvanized |         | Inner   | Master |              |
| 1/8        | 33C 1001C   | 34C 1001C  | 0.53    | 120     | 1920   | 0.05         |
| 1/4        | 33C 1002C   | 34C 1002C  | 0.63    | 80      | 1280   | 0.05         |
| 3/8        | 33C 1003C   | 34C 1003C  | 0.74    | 60      | 720    | 0.1          |
| 1/2        | 33C 1004C   | 34C 1004C  | 0.87    | 75      | 600    | 0.1          |
| 3/4        | 33C 1006C   | 34C 1006C  | 0.97    | 40      | 320    | 0.2          |
| 1          | 33C 1010C   | 34C 1010C  | 1.16    | 25      | 200    | 0.3          |
| 1-1/4      | 33C 1012C   | 34C 1012C  | 1.28    | 25      | 100    | 0.5          |
| 1-1/2      | 33C 1014C   | 34C 1014C  | 1.33    | 25      | 100    | 0.6          |
| 2          | 33C 1020C   | 34C 1020C  | 1.45    | 15      | 60     | 1.1          |
| 2-1/2      | 33C 1024C   | 34C 1024C  | 1.70    | 20      | 40     | 1.6          |
| 3          | 33C 1030C   | 34C 1030C  | 1.80    | 12      | 24     | 2.2          |
| 3-1/2      | 33C 1034C   | 34C 1034C  | 1.90    | 6       | 12     | 3.5          |
| 4          | 33C 1040C   | 34C 1040C  | 2.08    | -       | 12     | 3.9          |
| 5          | 33C 1050C   | 34C 1050C  | 2.32    | -       | 10     | 5.6          |
| 6          | 33C 1060C   | 34C 1060C  | 2.55    | -       | 5      | 8.8          |
| 8          | 33C 1080C   | 34C 1080C  | 3.20    | -       | 4      | 17.0         |



**Fig. 33EP1 & 34EP1 – Extension Piece**

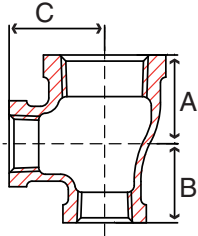
| Size<br>in | Part Number |            | A<br>in | Packing |        | Weight<br>lb |
|------------|-------------|------------|---------|---------|--------|--------------|
|            | Black       | Galvanized |         | Inner   | Master |              |
| 1/2        | 33EP1004C   | 34EP1004C  | 1.72    | 50      | 400    | 0.2          |
| 3/4        | 33EP1006C   | 34EP1006C  | 1.82    | 40      | 160    | 0.2          |
| 1          | 33EP1010C   | 34EP1010C  | 2.20    | 30      | 120    | 0.3          |
| 1-1/4      | 33EP1012C   | 34EP1012C  | 2.60    | 30      | 60     | 0.6          |
| 1-1/2      | 33EP1014C   | 34EP1014C  | 2.65    | 20      | 40     | 0.8          |
| 2          | 33EP1020C   | 34EP1020C  | 2.85    | 15      | 30     | 1.2          |



**Fig. 33LT1 & 34LT1 – Lateral**

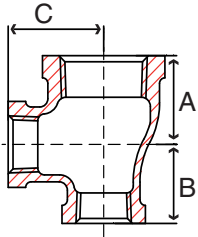
| Size<br>in | Part Number |            | A<br>in | B<br>in | Packing |        | Weight<br>lb |
|------------|-------------|------------|---------|---------|---------|--------|--------------|
|            | Black       | Galvanized |         |         | Inner   | Master |              |
| 1/2        | 33LT1004C   | 34LT1004C  | 2.32    | 1.71    | 30      | 120    | 0.3          |
| 3/4        | 33LT1006C   | 34LT1006C  | 2.77    | 2.05    | 40      | 80     | 0.6          |
| 1          | 33LT1010C   | 34LT1010C  | 3.28    | 2.43    | 20      | 40     | 0.9          |
| 1-1/4      | 33LT1012C   | 34LT1012C  | 3.94    | 2.92    | 12      | 24     | 1.4          |
| 1-1/2      | 33LT1014C   | 34LT1014C  | 4.38    | 3.28    | 10      | 20     | 2.0          |
| 2          | 33LT1020C   | 34LT1020C  | 5.17    | 3.93    | 5       | 10     | 3.1          |
| 2-1/2      | 33LT1024C   | 34LT1024C  | 6.25    | 4.73    | -       | 4      | 8.2          |
| 3          | 33LT1030C   | 34LT1030C  | 7.26    | 5.55    | -       | 2      | 16.1         |
| 4          | 33LT1040C   | 34LT1040C  | 8.98    | 6.97    | -       | 2      | 20.0         |

**Fig. 33RT1 & 34RT1 – Reducing Tee**



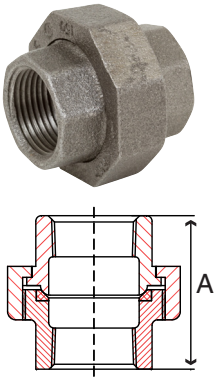
| Size<br>in          | Part Number     |                 | A<br>in | B<br>in | C<br>in | Packing |        | Weight<br>lb |
|---------------------|-----------------|-----------------|---------|---------|---------|---------|--------|--------------|
|                     | Black           | Galvanized      |         |         |         | Inner   | Master |              |
| 3/8 x 1/8           | 33RT1003001C    | 34RT1003001C    | 0.81    | 0.81    | 0.86    | 60      | 240    | 0.2          |
| 3/8 x 1/4           | 33RT1003002C    | 34RT1003002C    | 0.81    | 0.81    | 0.86    | 40      | 160    | 0.2          |
| 1/2 x 1/8           | 33RT1004001C    | 34RT1004001C    | 0.91    | 0.91    | 0.97    | 20      | 480    | 0.3          |
| 1/2 x 1/4           | 33RT1004002C    | 34RT1004002C    | 0.97    | 0.97    | 0.98    | 20      | 160    | 0.2          |
| 1/2 x 1/4 x 1/2     | 33RT1004002004C | 34RT1004002004C | 1.12    | 0.97    | 1.12    | 20      | 160    | 0.2          |
| 1/2 x 3/8           | 33RT1004003C    | 34RT1004003C    | 1.04    | 1.04    | 1.03    | 20      | 160    | 0.2          |
| 1/2 x 3/8 x 1/2     | 33RT1004003004C | 34RT1004003004C | 1.12    | 1.03    | 1.12    | 20      | 160    | 0.2          |
| 3/4 x 1/4           | 33RT1006002C    | 34RT1006002C    | 1.12    | 1.12    | 1.12    | 25      | 100    | 0.3          |
| 3/4 x 3/8           | 33RT1006003C    | 34RT1006003C    | 1.12    | 1.12    | 1.13    | 25      | 100    | 0.4          |
| 3/4 x 3/8 x 3/4     | 33RT1006003006C | 34RT1006003006C | 1.31    | 1.13    | 1.31    | 25      | 100    | 0.4          |
| 3/4 x 1/2           | 33RT1006004C    | 34RT1006004C    | 1.20    | 1.20    | 1.22    | 20      | 80     | 0.4          |
| 3/4 x 1/2 x 1/2     | 33RT1006004004C | 34RT1006004004C | 1.20    | 1.12    | 1.22    | 25      | 100    | 0.3          |
| 3/4 x 1/2 x 3/4     | 33RT1006004006C | 34RT1006004006C | 1.31    | 1.22    | 1.31    | 20      | 80     | 0.4          |
| 3/4 x 1/2 x 1       | 33RT1006004010C | 34RT1006004010C | 1.45    | 1.36    | 1.37    | 18      | 72     | 0.5          |
| 1 x 1/4             | 33RT1010002C    | 34RT1010002C    | 1.12    | 1.12    | 1.25    | 20      | 80     | 0.5          |
| 1 x 3/8             | 33RT1010003C    | 34RT1010003C    | 1.18    | 1.18    | 1.27    | 15      | 60     | 0.5          |
| 1 x 1/2             | 33RT1010004C    | 34RT1010004C    | 1.26    | 1.26    | 1.36    | 15      | 60     | 0.6          |
| 1 x 1/2 x 1/2       | 33RT1010004004C | 34RT1010004004C | 1.26    | 1.12    | 1.36    | 20      | 80     | 0.6          |
| 1 x 1/2 x 3/4       | 33RT1010004006C | 34RT1010004006C | 1.37    | 1.22    | 1.45    | 20      | 80     | 0.6          |
| 1 x 1/2 x 1         | 33RT1010004010C | 34RT1010004010C | 1.50    | 1.36    | 1.50    | 15      | 60     | 0.7          |
| 1 x 3/4             | 33RT1010006C    | 34RT1010006C    | 1.38    | 1.31    | 1.45    | 12      | 48     | 0.7          |
| 1 x 3/4 x 1/2       | 33RT1010006004C | 34RT1010006004C | 1.26    | 1.20    | 1.36    | 20      | 80     | 0.6          |
| 1 x 3/4 x 3/4       | 33RT1010006006C | 34RT1010006006C | 1.38    | 1.31    | 1.45    | 15      | 60     | 0.6          |
| 1 x 3/4 x 1         | 33RT1010006010C | 34RT1010006010C | 1.50    | 1.45    | 1.50    | 15      | 60     | 0.7          |
| 1-1/4 x 3/8         | 33RT1012003C    | 34RT1012003C    | 1.26    | 1.26    | 1.44    | 20      | 40     | 0.8          |
| 1-1/4 x 1/2         | 33RT1012004C    | 34RT1012004C    | 1.34    | 1.34    | 1.53    | 20      | 40     | 0.8          |
| 1-1/4 x 1/2 x 1/2   | 33RT1012004004C | 34RT1012004004C | 1.36    | 1.12    | 1.53    | 25      | 50     | 0.6          |
| 1-1/4 x 1/2 x 3/4   | 33RT1012004006C | 34RT1012004006C | 1.45    | 1.26    | 1.53    | 25      | 50     | 0.7          |
| 1-1/4 x 1/2 x 1     | 33RT1012004010C | 34RT1012004010C | 1.58    | 1.36    | 1.67    | 20      | 40     | 0.8          |
| 1-1/4 x 1/2 x 1-1/4 | 33RT1012004012C | 34RT1012004012C | 1.75    | 1.53    | 1.75    | 20      | 40     | 1.1          |
| 1-1/4 x 3/4         | 33RT1012006C    | 34RT1012006C    | 1.45    | 1.45    | 1.62    | 20      | 40     | 0.9          |
| 1-1/4 x 3/4 x 1/2   | 33RT1012006004C | 34RT1012006004C | 1.34    | 1.12    | 1.53    | 10      | 40     | 0.7          |
| 1-1/4 x 3/4 x 3/4   | 33RT1012006006C | 34RT1012006006C | 1.45    | 1.31    | 1.62    | 10      | 40     | 0.9          |
| 1-1/4 x 3/4 x 1     | 33RT1012006010C | 34RT1012006010C | 1.58    | 1.45    | 1.67    | 10      | 40     | 0.9          |
| 1-1/4 x 3/4 x 1-1/4 | 33RT1012006012C | 34RT1012006012C | 1.75    | 1.62    | 1.75    | 10      | 40     | 1.1          |
| 1-1/4 x 1           | 33RT1012010C    | 34RT1012010C    | 1.58    | 1.58    | 1.67    | 20      | 40     | 1.0          |
| 1-1/4 x 1 x 1/2     | 33RT1012010004C | 34RT1012010004C | 1.34    | 1.26    | 1.53    | 20      | 40     | 0.8          |
| 1-1/4 x 1 x 3/4     | 33RT1012010006C | 34RT1012010006C | 1.45    | 1.38    | 1.63    | 20      | 40     | 1.0          |
| 1-1/4 x 1 x 1       | 33RT1012010010C | 34RT1012010010C | 1.58    | 1.50    | 1.69    | 20      | 40     | 0.9          |
| 1-1/4 x 1 x 1-1/4   | 33RT1012010012C | 34RT1012010012C | 1.75    | 1.69    | 1.75    | 20      | 40     | 1.1          |
| 1-1/2 x 3/8         | 33RT1014003C    | 34RT1014003C    | 1.36    | 1.36    | 1.66    | 18      | 36     | 1.0          |
| 1-1/2 x 1/2         | 33RT1014004C    | 34RT1014004C    | 1.41    | 1.41    | 1.66    | 18      | 36     | 1.0          |
| 1-1/2 x 1/2 x 1/2   | 33RT1014004004C | 34RT1014004004C | 1.35    | 1.08    | 1.67    | 12      | 48     | 0.7          |
| 1-1/2 x 1/2 x 3/4   | 33RT1014004006C | 34RT1014004006C | 1.56    | 1.18    | 1.80    | 12      | 48     | 1.1          |
| 1-1/2 x 1/2 x 1     | 33RT1014004010C | 34RT1014004010C | 1.65    | 1.35    | 1.80    | 18      | 36     | 1.0          |
| 1-1/2 x 1/2 x 1-1/4 | 33RT1014004012C | 34RT1014004012C | 1.81    | 1.56    | 1.88    | 15      | 30     | 1.1          |
| 1-1/2 x 1/2 x 1-1/2 | 33RT1014004014C | 34RT1014004014C | 1.94    | 1.66    | 1.94    | 12      | 24     | 1.1          |
| 1-1/2 x 3/4         | 33RT1014006C    | 34RT1014006C    | 1.52    | 1.52    | 1.75    | 15      | 30     | 1.0          |
| 1-1/2 x 3/4 x 1/2   | 33RT1014006004C | 34RT1014006004C | 1.35    | 1.12    | 1.77    | 15      | 30     | 1.1          |
| 1-1/2 x 3/4 x 3/4   | 33RT1014006006C | 34RT1014006006C | 1.55    | 1.35    | 1.77    | 15      | 30     | 1.1          |
| 1-1/2 x 3/4 x 1     | 33RT1014006010C | 34RT1014006010C | 1.82    | 1.35    | 1.88    | 15      | 30     | 1.0          |
| 1-1/2 x 3/4 x 1-1/4 | 33RT1014006012C | 34RT1014006012C | 1.94    | 1.66    | 1.88    | 12      | 24     | 1.1          |
| 1-1/2 x 3/4 x 1-1/2 | 33RT1014006014C | 34RT1014006014C | 1.94    | 1.75    | 1.94    | 12      | 24     | 1.3          |
| 1-1/2 x 1           | 33RT1014010C    | 34RT1014010C    | 1.65    | 1.65    | 1.80    | 15      | 30     | 1.2          |
| 1-1/2 x 1 x 1/2     | 33RT1014010004C | 34RT1014010004C | 1.44    | 1.25    | 1.69    | 15      | 30     | 0.8          |
| 1-1/2 x 1 x 3/4     | 33RT1014010006C | 34RT1014010006C | 1.50    | 1.44    | 1.75    | 15      | 30     | 1.2          |
| 1-1/2 x 1 x 1       | 33RT1014010010C | 34RT1014010010C | 1.65    | 1.50    | 1.80    | 15      | 30     | 1.1          |
| 1-1/2 x 1 x 1-1/4   | 33RT1014010012C | 34RT1014010012C | 1.82    | 1.67    | 1.88    | 12      | 24     | 1.2          |

**Fig. 33RT1 & 34RT1 – Reducing Tee, cont.**



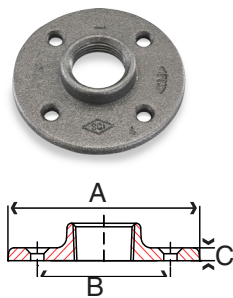
| Size<br>in            | Part Number     |                 | A<br>in | B<br>in | C<br>in | Packing |        | Weight<br>lb |
|-----------------------|-----------------|-----------------|---------|---------|---------|---------|--------|--------------|
|                       | Black           | Galvanized      |         |         |         | Inner   | Master |              |
| 1-1/2 x 1 x 1-1/2     | 33RT1014010014C | 34RT1014010014C | 1.94    | 1.80    | 1.94    | 12      | 24     | 1.5          |
| 1-1/2 x 1-1/4         | 33RT1014012C    | 34RT1014012C    | 1.82    | 1.82    | 1.88    | 12      | 24     | 1.4          |
| 1-1/2 x 1-1/4 x 1/2   | 33RT1014012004C | 34RT1014012004C | 1.41    | 1.34    | 1.66    | 12      | 24     | 0.9          |
| 1-1/2 x 1-1/4 x 3/4   | 33RT1014012006C | 34RT1014012006C | 1.52    | 1.45    | 1.75    | 12      | 24     | 1.1          |
| 1-1/2 x 1-1/4 x 1     | 33RT1014012010C | 34RT1014012010C | 1.65    | 1.58    | 1.80    | 12      | 24     | 1.2          |
| 1-1/2 x 1-1/4 x 1-1/4 | 33RT1014012012C | 34RT1014012012C | 1.82    | 1.75    | 1.88    | 12      | 24     | 1.4          |
| 1-1/2 x 1-1/4 x 1-1/2 | 33RT1014012014C | 34RT1014012014C | 1.94    | 1.88    | 1.94    | 12      | 24     | 1.4          |
| 1-1/2 x 1-1/4 x 2     | 33RT1014012020C | 34RT1014012020C | 2.16    | 2.10    | 2.02    | 8       | 16     | 1.9          |
| 2 x 3/8               | 33RT1020003C    | 34RT1020003C    | 1.49    | 1.49    | 1.88    | 10      | 40     | 1.6          |
| 2 x 1/2               | 33RT1020004C    | 34RT1020004C    | 1.49    | 1.49    | 1.88    | 10      | 20     | 1.3          |
| 2 x 1/2 x 2           | 33RT1020004020C | 34RT1020004020C | 2.25    | 1.88    | 2.25    | 8       | 16     | 2.0          |
| 2 x 3/4               | 33RT1020006C    | 34RT1020006C    | 1.60    | 1.60    | 1.97    | 10      | 20     | 1.6          |
| 2 x 3/4 x 3/4         | 33RT1020006006C | 34RT1020006006C | 1.65    | 1.31    | 1.92    | 12      | 24     | 1.5          |
| 2 x 3/4 x 2           | 33RT1020006020C | 34RT1020006020C | 2.25    | 1.97    | 2.25    | 8       | 16     | 2.1          |
| 2 x 1                 | 33RT1020010C    | 34RT1020010C    | 1.73    | 1.73    | 2.02    | 10      | 20     | 1.7          |
| 2 x 1 x 1             | 33RT1020010010C | 34RT1020010010C | 1.78    | 1.45    | 2.08    | 12      | 24     | 1.7          |
| 2 x 1 x 1-1/4         | 33RT1020010012C | 34RT1020010012C | 1.90    | 1.75    | 2.10    | 10      | 20     | 1.6          |
| 2 x 1 x 1-1/2         | 33RT1020010014C | 34RT1020010014C | 2.10    | 1.88    | 2.18    | 10      | 20     | 1.5          |
| 2 x 1 x 2             | 33RT1020010020C | 34RT1020010020C | 2.25    | 2.02    | 2.25    | 8       | 16     | 2.0          |
| 2 x 1-1/4             | 33RT1020012C    | 34RT1020012C    | 1.90    | 1.90    | 2.10    | 8       | 16     | 1.9          |
| 2 x 1-1/4 x 1         | 33RT1020012010C | 34RT1020012010C | 1.78    | 1.65    | 2.10    | 10      | 20     | 1.5          |
| 2 x 1-1/4 x 1-1/4     | 33RT1020012012C | 34RT1020012012C | 1.90    | 1.75    | 2.10    | 8       | 16     | 1.5          |
| 2 x 1-1/4 x 1-1/2     | 33RT1020012014C | 34RT1020012014C | 2.00    | 1.88    | 2.18    | 8       | 16     | 1.9          |
| 2 x 1-1/4 x 2         | 33RT1020012020C | 34RT1020012020C | 2.25    | 2.10    | 2.25    | 8       | 16     | 2.6          |
| 2 x 1-1/2             | 33RT1020014C    | 34RT1020014C    | 2.02    | 2.02    | 2.16    | 8       | 16     | 1.9          |
| 2 x 1-1/2 x 3/4       | 33RT1020014006C | 34RT1020014006C | 1.60    | 1.52    | 1.97    | 10      | 20     | 1.6          |
| 2 x 1-1/2 x 1         | 33RT1020014010C | 34RT1020014010C | 1.73    | 1.65    | 2.02    | 10      | 20     | 1.5          |
| 2 x 1-1/2 x 1-1/4     | 33RT1020014012C | 34RT1020014012C | 1.90    | 1.82    | 2.10    | 8       | 16     | 1.8          |
| 2 x 1-1/2 x 1-1/2     | 33RT1020014014C | 34RT1020014014C | 2.02    | 1.94    | 2.16    | 8       | 16     | 1.9          |
| 2 x 1-1/2 x 2         | 33RT1020014020C | 34RT1020014020C | 2.25    | 2.16    | 2.25    | 8       | 16     | 2.6          |
| 2-1/2 x 1/2           | 33RT1024004C    | 34RT1024004C    | 1.65    | 1.65    | 2.27    | -       | 16     | 2.4          |
| 2-1/2 x 3/4           | 33RT1024006C    | 34RT1024006C    | 1.74    | 1.74    | 2.32    | -       | 16     | 2.4          |
| 2-1/2 x 1             | 33RT1024010C    | 34RT1024010C    | 1.87    | 1.87    | 2.37    | -       | 16     | 3.2          |
| 2-1/2 x 1-1/4         | 33RT1024012C    | 34RT1024012C    | 2.04    | 2.04    | 2.45    | -       | 10     | 3.1          |
| 2-1/2 x 1-1/2         | 33RT1024014C    | 34RT1024014C    | 2.16    | 2.16    | 2.51    | -       | 10     | 3.5          |
| 2-1/2 x 1-1/2 x 1-1/2 | 33RT1024014014C | 34RT1024014014C | 2.16    | 1.97    | 2.51    | -       | 10     | 2.4          |
| 2-1/2 x 1-1/2 x 2     | 33RT1024014020C | 34RT1024014020C | 2.39    | 2.16    | 2.60    | -       | 10     | 2.8          |
| 2-1/2 x 1-1/2 x 2-1/2 | 33RT1024014024C | 34RT1024014024C | 2.70    | 2.51    | 2.70    | -       | 10     | 3.8          |
| 2-1/2 x 2             | 33RT1024020C    | 34RT1024020C    | 2.39    | 2.39    | 2.60    | -       | 10     | 4.0          |
| 2-1/2 x 2 x 2         | 33RT1024020020C | 34RT1024020020C | 2.39    | 2.25    | 2.60    | -       | 10     | 3.7          |
| 2-1/2 x 2 x 2-1/2     | 33RT1024020024C | 34RT1024020024C | 2.70    | 2.60    | 2.70    | -       | 10     | 3.9          |
| 3 x 1/2               | 33RT1030004C    | 34RT1030004C    | 1.80    | 1.80    | 2.57    | 6       | 12     | 2.4          |
| 3 x 3/4               | 33RT1030006C    | 34RT1030006C    | 1.87    | 1.87    | 2.61    | -       | 6      | 2.4          |
| 3 x 1                 | 33RT1030010C    | 34RT1030010C    | 2.00    | 2.00    | 2.66    | -       | 6      | 2.6          |
| 3 x 1-1/4             | 33RT1030012C    | 34RT1030012C    | 2.17    | 2.17    | 2.74    | -       | 6      | 2.4          |
| 3 x 1-1/2             | 33RT1030014C    | 34RT1030014C    | 2.29    | 2.29    | 2.80    | -       | 6      | 2.5          |
| 3 x 2                 | 33RT1030020C    | 34RT1030020C    | 2.52    | 2.52    | 2.89    | -       | 6      | 2.7          |
| 3 x 2 x 2             | 33RT1030020020C | 34RT1030020020C | 2.52    | 2.25    | 2.89    | -       | 6      | 4.0          |
| 4 x 1/2               | 33RT1040004C    | 34RT1040004C    | 2.03    | 2.03    | 3.25    | -       | 4      | 5.1          |
| 4 x 3/4               | 33RT1040006C    | 34RT1040006C    | 2.25    | 2.25    | 3.25    | -       | 4      | 5.4          |
| 4 x 1-1/4             | 33RT1040012C    | 34RT1040012C    | 2.41    | 2.41    | 3.32    | -       | 4      | 6.1          |
| 4 x 1-1/2             | 33RT1040014C    | 34RT1040014C    | 2.51    | 2.51    | 3.32    | -       | 4      | 7.1          |
| 4 x 2                 | 33RT1040020C    | 34RT1040020C    | 2.74    | 2.74    | 3.41    | -       | 3      | 7.7          |
| 4 x 2-1/2             | 33RT1040024C    | 34RT1040024C    | 3.05    | 3.05    | 3.51    | -       | 3      | 8.6          |
| 4 x 3                 | 33RT1040030C    | 34RT1040030C    | 3.30    | 3.30    | 3.60    | -       | 3      | 9.5          |
| 6 x 2                 | 33RT1060020C    | 34RT1060020C    | 3.08    | 3.08    | 4.56    | -       | 1      | 16.4         |
| 6 x 2-1/2             | 33RT1060024C    | 34RT1060024C    | 3.39    | 3.39    | 4.66    | -       | 1      | 18.0         |
| 6 x 3                 | 33RT1060030C    | 34RT1060030C    | 3.64    | 3.64    | 4.75    | -       | 1      | 19.3         |
| 6 x 4                 | 33RT1060040C    | 34RT1060040C    | 4.13    | 4.13    | 4.94    | -       | 1      | 21.5         |
| 6 x 5                 | 33RT1060050C    | 34RT1060050C    | 4.53    | 4.53    | 5.50    | -       | 1      | 30.0         |

**Fig. 33U 1 & 34U 1 – Union with Brass Seat**



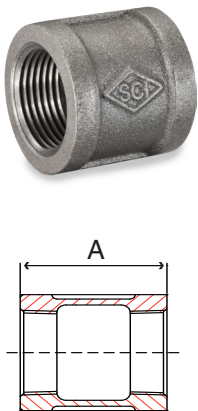
| Size<br>in | Part Number |            | A<br>in | Packing |        | Weight<br>lb |
|------------|-------------|------------|---------|---------|--------|--------------|
|            | Black       | Galvanized |         | Inner   | Master |              |
| 1/8        | 33U 1001C   | 34U 1001C  | 1.32    | 30      | 480    | 0.1          |
| 1/4        | 33U 1002C   | 34U 1002C  | 1.44    | 20      | 240    | 0.2          |
| 3/8        | 33U 1003C   | 34U 1003C  | 1.61    | 20      | 160    | 0.3          |
| 1/2        | 33U 1004C   | 34U 1004C  | 1.72    | 40      | 160    | 0.4          |
| 3/4        | 33U 1006C   | 34U 1006C  | 2.02    | 40      | 80     | 0.5          |
| 1          | 33U 1010C   | 34U 1010C  | 2.19    | 30      | 60     | 0.9          |
| 1-1/4      | 33U 1012C   | 34U 1012C  | 2.26    | 20      | 40     | 1.3          |
| 1-1/2      | 33U 1014C   | 34U 1014C  | 2.47    | 15      | 30     | 2.2          |
| 2          | 33U 1020C   | 34U 1020C  | 2.75    | 10      | 20     | 3.3          |
| 2-1/2      | 33U 1024C   | 34U 1024C  | 3.25    | -       | 10     | 4.8          |
| 3          | 33U 1030C   | 34U 1030C  | 3.54    | -       | 7      | 6.8          |
| 4          | 33U 1040C   | 34U 1040C  | 3.85    | -       | 4      | 12.2         |

**Fig. 33FF1 & 34FF1 – Floor Flange**



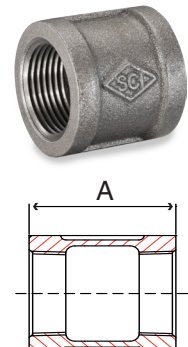
| Size<br>in | Part Number |            | A<br>in | B<br>in | C<br>in | Packing |        | Weight<br>lb |
|------------|-------------|------------|---------|---------|---------|---------|--------|--------------|
|            | Black       | Galvanized |         |         |         | Inner   | Master |              |
| 1/4        | 33FF1002C   | 34FF1002C  | 2.83    | 2.00    | 0.31    | 50      | 200    | 0.1          |
| 3/8        | 33FF1003C   | 34FF1003C  | 2.75    | 1.90    | 0.26    | 50      | 200    | 0.2          |
| 1/2        | 33FF1004C   | 34FF1004C  | 3.00    | 2.10    | 0.36    | 50      | 200    | 0.3          |
| 3/4        | 33FF1006C   | 34FF1006C  | 3.40    | 2.40    | 0.26    | 30      | 120    | 0.4          |
| 1          | 33FF1010C   | 34FF1010C  | 3.80    | 2.80    | 0.26    | 20      | 80     | 0.5          |
| 1-1/4      | 33FF1012C   | 34FF1012C  | 4.20    | 3.20    | 0.28    | 15      | 60     | 0.9          |
| 1-1/2      | 33FF1014C   | 34FF1014C  | 4.60    | 3.45    | 0.30    | 12      | 48     | 1.3          |
| 2          | 33FF1020C   | 34FF1020C  | 5.20    | 4.00    | 0.30    | 8       | 32     | 2.2          |
| 2-1/2      | 33FF1024C   | 34FF1024C  | 6.75    | 5.00    | 0.37    | 6       | 12     | 3.3          |
| 3          | 33FF1030C   | 34FF1030C  | 7.88    | 6.00    | 0.45    | 5       | 10     | 4.8          |
| 4          | 33FF1040C   | 34FF1040C  | 9.50    | 7.00    | 0.45    | -       | 10     | 6.8          |

**Fig. 33CP1 & 34CP1 – Banded Coupling**



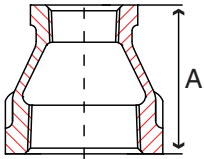
| Size<br>in | Part Number |            | A<br>in | Packing |        | Weight<br>lb |
|------------|-------------|------------|---------|---------|--------|--------------|
|            | Black       | Galvanized |         | Inner   | Master |              |
| 1/8        | 33CP1001C   | 34CP1001C  | 0.96    | 70      | 1120   | 0.05         |
| 1/4        | 33CP1002C   | 34CP1002C  | 1.06    | 40      | 640    | 0.1          |
| 3/8        | 33CP1003C   | 34CP1003C  | 1.16    | 40      | 480    | 0.1          |
| 1/2        | 33CP1004C   | 34CP1004C  | 1.34    | 40      | 320    | 0.2          |
| 3/4        | 33CP1006C   | 34CP1006C  | 1.52    | 50      | 200    | 0.3          |
| 1          | 33CP1010C   | 34CP1010C  | 1.67    | 25      | 100    | 0.4          |
| 1-1/4      | 33CP1012C   | 34CP1012C  | 1.93    | 20      | 80     | 0.6          |
| 1-1/2      | 33CP1014C   | 34CP1014C  | 2.15    | 12      | 48     | 0.8          |
| 2          | 33CP1020C   | 34CP1020C  | 2.53    | 12      | 24     | 1.3          |
| 2-1/2      | 33CP1024C   | 34CP1024C  | 2.88    | 8       | 16     | 2.2          |
| 3          | 33CP1030C   | 34CP1030C  | 3.18    | 8       | 16     | 2.8          |
| 3-1/2      | 33CP1034C   | 34CP1034C  | 3.50    | -       | 8      | 3.5          |
| 4          | 33CP1040C   | 34CP1040C  | 3.69    | -       | 6      | 4.6          |
| 5          | 33CP1050C   | 34CP1050C  | 3.75    | -       | 3      | 6.6          |
| 6          | 33CP1060C   | 34CP1060C  | 4.75    | -       | 3      | 11.0         |

**Fig. 33RL1 & 34RL1 – Right and Left Coupling**



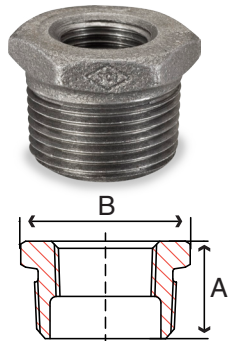
| Size<br>in | Part Number |            | A<br>in | Packing |        | Weight<br>lb |
|------------|-------------|------------|---------|---------|--------|--------------|
|            | Black       | Galvanized |         | Inner   | Master |              |
| 1/2        | 33RL1004C   | 34RL1004C  | 1.34    | 40      | 320    | 0.2          |
| 3/4        | 33RL1006C   | 34RL1006C  | 1.52    | 50      | 200    | 0.3          |
| 1          | 33RL1010C   | 34RL1010C  | 1.67    | 25      | 100    | 0.4          |
| 1-1/4      | 33RL1012C   | 34RL1012C  | 1.93    | 20      | 80     | 0.6          |
| 1-1/2      | 33RL1014C   | 34RL1014C  | 2.15    | 12      | 48     | 0.8          |
| 2          | 33RL1020C   | 34RL1020C  | 2.53    | 12      | 24     | 1.3          |

**Fig. 33RC1 & 34RC1 – Reducing Coupling**



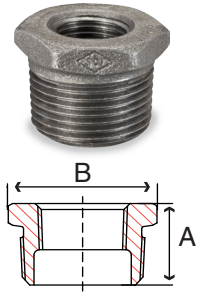
| Size<br>in    | Part Number  |              | A<br>in | Packing |        | Weight<br>lb |
|---------------|--------------|--------------|---------|---------|--------|--------------|
|               | Black        | Galvanized   |         | Inner   | Master |              |
| 1/4 x 1/8     | 33RC1002001C | 34RC1002001C | 1.00    | 50      | 600    | 0.1          |
| 3/8 x 1/8     | 33RC1003001C | 34RC1003001C | 1.13    | 35      | 420    | 0.1          |
| 3/8 x 1/4     | 33RC1003002C | 34RC1003002C | 1.13    | 30      | 360    | 0.1          |
| 1/2 x 1/8     | 33RC1004001C | 34RC1004001C | 1.25    | 50      | 400    | 0.1          |
| 1/2 x 1/4     | 33RC1004002C | 34RC1004002C | 1.25    | 50      | 400    | 0.1          |
| 1/2 x 3/8     | 33RC1004003C | 34RC1004003C | 1.25    | 40      | 320    | 0.1          |
| 3/4 x 1/8     | 33RC1006001C | 34RC1006001C | 1.44    | 35      | 280    | 0.2          |
| 3/4 x 1/4     | 33RC1006002C | 34RC1006002C | 1.44    | 30      | 240    | 0.2          |
| 3/4 x 3/8     | 33RC1006003C | 34RC1006003C | 1.44    | 60      | 240    | 0.2          |
| 3/4 x 1/2     | 33RC1006004C | 34RC1006004C | 1.44    | 60      | 240    | 0.2          |
| 1 x 1/4       | 33RC1010002C | 34RC1010002C | 1.69    | 45      | 180    | 0.3          |
| 1 x 3/8       | 33RC1010003C | 34RC1010003C | 1.69    | 30      | 120    | 0.3          |
| 1 x 1/2       | 33RC1010004C | 34RC1010004C | 1.69    | 30      | 120    | 0.3          |
| 1 x 3/4       | 33RC1010006C | 34RC1010006C | 1.69    | 25      | 100    | 0.4          |
| 1-1/4 x 3/8   | 33RC1012003C | 34RC1012003C | 2.06    | 25      | 100    | 0.5          |
| 1-1/4 x 1/2   | 33RC1012004C | 34RC1012004C | 2.06    | 25      | 100    | 0.5          |
| 1-1/4 x 3/4   | 33RC1012006C | 34RC1012006C | 2.06    | 25      | 100    | 0.5          |
| 1-1/4 x 1     | 33RC1012010C | 34RC1012010C | 2.06    | 15      | 60     | 0.5          |
| 1-1/2 x 3/8   | 33RC1014003C | 34RC1014003C | 2.31    | 15      | 60     | 0.6          |
| 1-1/2 x 1/2   | 33RC1014004C | 34RC1014004C | 2.31    | 15      | 60     | 0.6          |
| 1-1/2 x 3/4   | 33RC1014006C | 34RC1014006C | 2.31    | 15      | 60     | 0.6          |
| 1-1/2 x 1     | 33RC1014010C | 34RC1014010C | 2.31    | 15      | 60     | 0.7          |
| 1-1/2 x 1-1/4 | 33RC1014012C | 34RC1014012C | 2.31    | 12      | 48     | 0.7          |
| 2 x 3/8       | 33RC1020003C | 34RC1020003C | 2.81    | 14      | 56     | 0.9          |
| 2 x 1/2       | 33RC1020004C | 34RC1020004C | 2.81    | 12      | 48     | 0.9          |
| 2 x 3/4       | 33RC1020006C | 34RC1020006C | 2.81    | 12      | 48     | 1.0          |
| 2 x 1         | 33RC1020010C | 34RC1020010C | 2.81    | 12      | 48     | 1.0          |
| 2 x 1-1/4     | 33RC1020012C | 34RC1020012C | 2.81    | 14      | 28     | 1.0          |
| 2 x 1-1/2     | 33RC1020014C | 34RC1020014C | 2.81    | 12      | 24     | 1.0          |
| 2-1/2 x 1/2   | 33RC1024004C | 34RC1024004C | 3.25    | -       | 25     | 1.5          |
| 2-1/2 x 3/4   | 33RC1024006C | 34RC1024006C | 3.25    | -       | 25     | 1.5          |
| 2-1/2 x 1     | 33RC1024010C | 34RC1024010C | 3.25    | -       | 25     | 1.6          |
| 2-1/2 x 1-1/4 | 33RC1024012C | 34RC1024012C | 3.25    | -       | 25     | 1.7          |
| 2-1/2 x 1-1/2 | 33RC1024014C | 34RC1024014C | 3.25    | -       | 25     | 1.7          |
| 2-1/2 x 2     | 33RC1024020C | 34RC1024020C | 3.25    | -       | 25     | 1.8          |
| 3 x 1/2       | 33RC1030004C | 34RC1030004C | 3.69    | -       | 20     | 2.0          |
| 3 x 3/4       | 33RC1030006C | 34RC1030006C | 3.69    | -       | 20     | 2.2          |
| 3 x 1         | 33RC1030010C | 34RC1030010C | 3.69    | -       | 20     | 2.2          |
| 3 x 1-1/4     | 33RC1030012C | 34RC1030012C | 3.69    | -       | 20     | 2.0          |
| 3 x 1-1/2     | 33RC1030014C | 34RC1030014C | 3.69    | -       | 20     | 2.2          |
| 3 x 2         | 33RC1030020C | 34RC1030020C | 3.69    | -       | 18     | 2.4          |
| 3 x 2-1/2     | 33RC1030024C | 34RC1030024C | 3.69    | -       | 12     | 2.5          |
| 4 x 1/2       | 33RC1040004C | 34RC1040004C | 4.38    | -       | 10     | 4.0          |
| 4 x 3/4       | 33RC1040006C | 34RC1040006C | 4.38    | -       | 10     | 4.0          |
| 4 x 1         | 33RC1040010C | 34RC1040010C | 4.38    | -       | 10     | 3.7          |
| 4 x 1-1/4     | 33RC1040012C | 34RC1040012C | 4.38    | -       | 10     | 3.7          |
| 4 x 1-1/2     | 33RC1040014C | 34RC1040014C | 4.38    | -       | 10     | 4.4          |
| 4 x 2         | 33RC1040020C | 34RC1040020C | 4.38    | -       | 10     | 4.4          |
| 4 x 2-1/2     | 33RC1040024C | 34RC1040024C | 4.38    | -       | 10     | 4.0          |
| 4 x 3         | 33RC1040030C | 34RC1040030C | 4.38    | -       | 8      | 4.2          |
| 5 x 2         | 33RC1050020C | 34RC1050020C | 3.87    | -       | 4      | 5.5          |
| 5 x 2-1/2     | 33RC1050024C | 34RC1050024C | 3.87    | -       | 4      | 5.5          |
| 5 x 3         | 33RC1050030C | 34RC1050030C | 3.87    | -       | 4      | 5.2          |
| 5 x 4         | 33RC1050040C | 34RC1050040C | 4.86    | -       | 4      | 9.8          |
| 6 x 2         | 33RC1060020C | 34RC1060020C | 4.20    | -       | 4      | 7.5          |
| 6 x 2-1/2     | 33RC1060024C | 34RC1060024C | 4.20    | -       | 4      | 7.5          |
| 6 x 3         | 33RC1060030C | 34RC1060030C | 4.20    | -       | 4      | 7.9          |
| 6 x 4         | 33RC1060040C | 34RC1060040C | 4.20    | -       | 3      | 9.9          |
| 6 x 5         | 33RC1060050C | 34RC1060050C | 4.20    | -       | 3      | 8.7          |
| 8 x 6         | 33RC1080060C | 34RC1080060C | 5.25    | -       | 2      | 17.1         |

**Fig. 33HB1 & 34HB1 – Hex Bushing**



| Size<br>in    | Part Number  |              | A<br>in | B<br>in | Hex | Packing |        | Weight<br>lb |
|---------------|--------------|--------------|---------|---------|-----|---------|--------|--------------|
|               | Black        | Galvanized   |         |         |     | Inner   | Master |              |
| 1/4 x 1/8     | 33HB1002001C | 34HB1002001C | 0.61    | .066    | Out | 120     | 1920   | 0.05         |
| 3/8 x 1/8     | 33HB1003001C | 34HB1003001C | 0.81    | 0.73    | Out | 75      | 1200   | 0.05         |
| 3/8 x 1/4     | 33HB1003002C | 34HB1003002C | 0.81    | 0.73    | Out | 75      | 1200   | 0.05         |
| 1/2 x 1/8     | 33HB1004001C | 34HB1004001C | 0.95    | 0.88    | Out | 100     | 800    | 0.1          |
| 1/2 x 1/4     | 33HB1004002C | 34HB1004002C | 0.95    | 0.88    | Out | 100     | 800    | 0.1          |
| 1/2 x 3/8     | 33HB1004003C | 34HB1004003C | 0.95    | 0.88    | Out | 100     | 800    | 0.1          |
| 3/4 x 1/8     | 33HB1006001C | 34HB1006001C | 0.95    | 1.18    | Out | 40      | 320    | 0.2          |
| 3/4 x 1/4     | 33HB1006002C | 34HB1006002C | 1.05    | 1.18    | Out | 40      | 320    | 0.2          |
| 3/4 x 3/8     | 33HB1006003C | 34HB1006003C | 1.05    | 1.18    | Out | 40      | 320    | 0.2          |
| 3/4 x 1/2     | 33HB1006004C | 34HB1006004C | 1.05    | 1.18    | Out | 40      | 320    | 0.2          |
| 1 x 1/8       | 33HB1010001C | 34HB1010001C | 1.12    | 1.15    | In  | 30      | 240    | 0.2          |
| 1 x 1/4       | 33HB1010002C | 34HB1010002C | 1.12    | 1.15    | In  | 30      | 240    | 0.2          |
| 1 x 3/8       | 33HB1010003C | 34HB1010003C | 1.16    | 1.40    | Out | 30      | 240    | 0.2          |
| 1 x 1/2       | 33HB1010004C | 34HB1010004C | 1.16    | 1.40    | Out | 30      | 240    | 0.2          |
| 1 x 3/4       | 33HB1010006C | 34HB1010006C | 1.18    | 1.40    | Out | 30      | 240    | 0.2          |
| 1-1/4 x 1/4   | 33HB1012002C | 34HB1012002C | 1.16    | 1.15    | In  | 30      | 120    | 0.4          |
| 1-1/4 x 3/8   | 33HB1012003C | 34HB1012003C | 1.20    | 1.15    | In  | 30      | 120    | 0.4          |
| 1-1/4 x 1/2   | 33HB1012004C | 34HB1012004C | 1.25    | 1.38    | In  | 30      | 120    | 0.4          |
| 1-1/4 x 3/4   | 33HB1012006C | 34HB1012006C | 1.25    | 1.80    | Out | 30      | 120    | 0.3          |
| 1-1/4 x 1     | 33HB1012010C | 34HB1012010C | 1.25    | 1.80    | Out | 30      | 120    | 0.3          |
| 1-1/2 x 1/8   | 33HB1014001C | 34HB1014001C | 1.30    | 1.18    | In  | 25      | 100    | 0.4          |
| 1-1/2 x 1/4   | 33HB1014002C | 34HB1014002C | 1.30    | 1.18    | In  | 25      | 100    | 0.6          |
| 1-1/2 x 3/8   | 33HB1014003C | 34HB1014003C | 1.30    | 1.18    | In  | 25      | 100    | 0.6          |
| 1-1/2 x 1/2   | 33HB1014004C | 34HB1014004C | 1.30    | 1.40    | In  | 25      | 100    | 0.5          |
| 1-1/2 x 3/4   | 33HB1014006C | 34HB1014006C | 1.30    | 1.66    | In  | 25      | 100    | 0.5          |
| 1-1/2 x 1     | 33HB1014010C | 34HB1014010C | 1.30    | 1.95    | Out | 25      | 100    | 0.5          |
| 1-1/2 x 1-1/4 | 33HB1014012C | 34HB1014012C | 1.30    | 1.95    | Out | 25      | 100    | 0.3          |
| 2 x 1/4       | 33HB1020002C | 34HB1020002C | 1.40    | 1.18    | In  | 20      | 80     | 0.7          |
| 2 x 3/8       | 33HB1020003C | 34HB1020003C | 1.40    | 1.18    | In  | 20      | 80     | 0.8          |
| 2 x 1/2       | 33HB1020004C | 34HB1020004C | 1.50    | 1.37    | In  | 20      | 80     | 0.9          |
| 2 x 3/4       | 33HB1020006C | 34HB1020006C | 1.50    | 1.68    | In  | 20      | 80     | 0.9          |
| 2 x 1         | 33HB1020010C | 34HB1020010C | 1.50    | 1.97    | In  | 20      | 80     | 0.8          |
| 2 x 1-1/4     | 33HB1020012C | 34HB1020012C | 1.50    | 2.55    | Out | 20      | 80     | 0.7          |
| 2 x 1-1/2     | 33HB1020014C | 34HB1020014C | 1.50    | 2.55    | Out | 20      | 80     | 0.7          |
| 2-1/2 x 1/2   | 33HB1024004C | 34HB1024004C | 1.70    | 3.25    | Out | 15      | 60     | 1.5          |
| 2-1/2 x 3/4   | 33HB1024006C | 34HB1024006C | 1.58    | 1.65    | In  | 15      | 60     | 1.5          |
| 2-1/2 x 1     | 33HB1024010C | 34HB1024010C | 1.58    | 2.00    | In  | 15      | 60     | 1.5          |
| 2-1/2 x 1-1/4 | 33HB1024012C | 34HB1024012C | 1.58    | 2.40    | In  | 15      | 60     | 1.4          |
| 2-1/2 x 1-1/2 | 33HB1024014C | 34HB1024014C | 1.58    | 2.70    | In  | 12      | 48     | 1.4          |
| 2-1/2 x 2     | 33HB1024020C | 34HB1024020C | 1.65    | 3.00    | Out | 12      | 48     | 1.1          |
| 3 x 1/2       | 33HB1030004C | 34HB1030004C | 1.88    | 3.80    | Out | 6       | 24     | 2.0          |
| 3 x 3/4       | 33HB1030006C | 34HB1030006C | 1.75    | 1.70    | In  | 6       | 24     | 1.9          |
| 3 x 1         | 33HB1030010C | 34HB1030010C | 1.70    | 2.00    | In  | 6       | 24     | 2.1          |
| 3 x 1-1/4     | 33HB1030012C | 34HB1030012C | 1.70    | 2.40    | In  | 6       | 24     | 2.1          |
| 3 x 1-1/2     | 33HB1030014C | 34HB1030014C | 1.70    | 2.70    | In  | 6       | 24     | 2.2          |
| 3 x 2         | 33HB1030020C | 34HB1030020C | 1.80    | 3.70    | Out | 6       | 24     | 2.0          |
| 3 x 2-1/2     | 33HB1030024C | 34HB1030024C | 1.90    | 3.90    | Out | 6       | 24     | 1.6          |
| 3-1/2 x 1-1/2 | 33HB1034014C | 34HB1034014C | 1.75    | 2.75    | In  | -       | 20     | 1.5          |
| 3-1/2 x 2     | 33HB1034020C | 34HB1034020C | 1.94    | 1.80    | In  | -       | 20     | 2.4          |
| 3-1/2 x 2-1/2 | 33HB1034024C | 34HB1034024C | 1.70    | 4.30    | Out | -       | 20     | 2.5          |
| 3-1/2 x 3     | 33HB1034030C | 34HB1034030C | 1.75    | 4.60    | Out | -       | 20     | 1.9          |
| 4 x 3/4       | 33HB1040006C | 34HB1040006C | 2.00    | 2.00    | In  | -       | 20     | 4.4          |
| 4 x 1         | 33HB1040010C | 34HB1040010C | 1.90    | 2.00    | In  | -       | 20     | 4.5          |
| 4 x 1-1/4     | 33HB1040012C | 34HB1040012C | 1.90    | 2.40    | In  | -       | 20     | 2.7          |
| 4 x 1-1/2     | 33HB1040014C | 34HB1040014C | 1.90    | 2.70    | In  | -       | 20     | 4.2          |
| 4 x 2         | 33HB1040020C | 34HB1040020C | 1.90    | 3.30    | In  | -       | 20     | 3.8          |
| 4 x 2-1/2     | 33HB1040024C | 34HB1040024C | 2.10    | 4.70    | In  | -       | 20     | 3.9          |
| 4 x 3         | 33HB1040030C | 34HB1040030C | 2.10    | 4.70    | Out | -       | 20     | 3.3          |
| 4 x 3-1/2     | 33HB1040034C | 34HB1040034C | 2.33    | 4.75    | Out | -       | 20     | 2.5          |
| 5 x 2         | 33HB1050020C | 34HB1050020C | 2.05    | 3.30    | In  | -       | 10     | 5.1          |
| 5 x 2-1/2     | 33HB1050024C | 34HB1050024C | 2.10    | 4.00    | In  | -       | 10     | 4.8          |
| 5 x 3         | 33HB1050030C | 34HB1050030C | 2.10    | 4.70    | In  | -       | 10     | 4.4          |
| 5 x 4         | 33HB1050040C | 34HB1050040C | 2.10    | 5.80    | Out | -       | 10     | 4.0          |

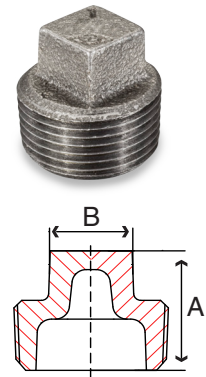
Bushings may have hexagon or octagon heads.



**Fig. 33HB1 & 34HB1 – Hex Bushing cont.**

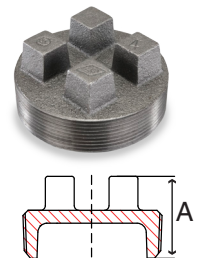
| Size<br>in | Part Number  |              | A<br>in | B<br>in | Hex | Packing |        | Weight<br>lb |
|------------|--------------|--------------|---------|---------|-----|---------|--------|--------------|
|            | Black        | Galvanized   |         |         |     | Inner   | Master |              |
| 6 x 1-1/2  | 33HB1060014C | 34HB1060014C | 2.20    | 3.35    | In  | -       | 7      | 12.0         |
| 6 x 2      | 33HB1060020C | 34HB1060020C | 2.20    | 3.35    | In  | -       | 7      | 10.0         |
| 6 x 2-1/2  | 33HB1060024C | 34HB1060024C | 2.20    | 3.90    | In  | -       | 7      | 7.9          |
| 6 x 3      | 33HB1060030C | 34HB1060030C | 2.30    | 4.70    | In  | -       | 7      | 7.7          |
| 6 x 4      | 33HB1060040C | 34HB1060040C | 2.30    | 5.90    | In  | -       | 7      | 6.7          |
| 6 x 5      | 33HB1060050C | 34HB1060050C | 2.50    | 7.20    | Out | -       | 7      | 6.3          |
| 8 x 6      | 33HB1080060C | 34HB1080060C | 2.75    | 9.00    | Out | -       | 4      | 13.1         |

Bushings may have hexagon or octagon heads.



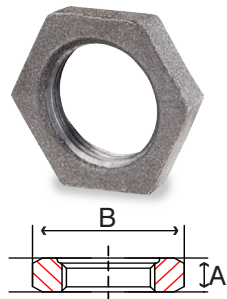
**Fig. 33SP1 & 34SP1 – Square Head Plug**

| Size<br>in | Part Number |            | A<br>in | B<br>in | Packing |        | Weight<br>lb |
|------------|-------------|------------|---------|---------|---------|--------|--------------|
|            | Black       | Galvanized |         |         | Inner   | Master |              |
| 1/8        | 33SP1001C   | 34SP1001C  | 0.65    | 0.30    | 300     | 4800   | 0.01         |
| 1/4        | 33SP1002C   | 34SP1002C  | 0.75    | 0.44    | 150     | 2400   | 0.03         |
| 3/8        | 33SP1003C   | 34SP1003C  | 0.85    | 0.38    | 100     | 1600   | 0.05         |
| 1/2        | 33SP1004C   | 34SP1004C  | 1.00    | 0.53    | 50      | 800    | 0.1          |
| 3/4        | 33SP1006C   | 34SP1006C  | 1.15    | 0.58    | 30      | 360    | 0.1          |
| 1          | 33SP1010C   | 34SP1010C  | 1.30    | 0.71    | 20      | 240    | 0.2          |
| 1-1/4      | 33SP1012C   | 34SP1012C  | 1.40    | 0.90    | 40      | 160    | 0.3          |
| 1-1/2      | 33SP1014C   | 34SP1014C  | 1.50    | 1.10    | 30      | 120    | 0.5          |
| 2          | 33SP1020C   | 34SP1020C  | 1.60    | 1.30    | 20      | 80     | 0.7          |
| 2-1/2      | 33SP1024C   | 34SP1024C  | 1.85    | 1.50    | 16      | 64     | 1.2          |
| 3          | 33SP1030C   | 34SP1030C  | 1.95    | 1.69    | 16      | 32     | 1.7          |
| 3-1/2      | 33SP1034C   | 34SP1034C  | 2.10    | 1.84    | -       | 16     | 2.5          |
| 4          | 33SP1040C   | 34SP1040C  | 2.30    | 2.16    | 8       | 16     | 3.0          |
| 5          | 33SP1050C   | 34SP1050C  | 2.50    | 2.50    | 5       | 10     | 5.0          |
| 6          | 33SP1060C   | 34SP1060C  | 2.80    | 2.62    | -       | 10     | 7.3          |



**Fig. 33BP1 & 34BP1 – Bar Plug**

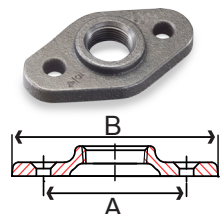
| Size<br>in | Part Number |            | A<br>in | Packing |        | Weight<br>lb |
|------------|-------------|------------|---------|---------|--------|--------------|
|            | Black       | Galvanized |         | Inner   | Master |              |
| 4          | 33BP1040C   | 34BP1040C  | 2.30    | 8       | 16     | 3.5          |
| 5          | 33BP1050C   | 34BP1050C  | 2.45    | -       | 10     | 5.2          |
| 6          | 33BP1060C   | 34BP1060C  | 2.70    | -       | 10     | 8.3          |
| 8          | 33BP1080C   | 34BP1080C  | 3.00    | -       | 4      | 20.7         |



**Fig. 33LN1 & 34LN1 – Lock Nut\***

| Size<br>in | Part Number |            | A<br>in | B<br>in | Packing |        | Weight<br>lb |
|------------|-------------|------------|---------|---------|---------|--------|--------------|
|            | Black       | Galvanized |         |         | Inner   | Master |              |
| 1/8        | 33LN1001C   | 34LN1001C  | 0.30    | 0.71    | 250     | 4000   | 0.03         |
| 1/4        | 33LN1002C   | 34LN1002C  | 0.34    | 0.90    | 125     | 2000   | 0.03         |
| 3/8        | 33LN1003C   | 34LN1003C  | 0.30    | 1.05    | 125     | 1500   | 0.04         |
| 1/2        | 33LN1004C   | 34LN1004C  | 0.38    | 1.27    | 100     | 800    | 0.07         |
| 3/4        | 33LN1006C   | 34LN1006C  | 0.40    | 1.50    | 60      | 480    | 0.1          |
| 1          | 33LN1010C   | 34LN1010C  | 0.50    | 1.88    | 40      | 320    | 0.1          |
| 1-1/4      | 33LN1012C   | 34LN1012C  | 0.50    | 2.15    | 30      | 240    | 0.2          |
| 1-1/2      | 33LN1014C   | 34LN1014C  | 0.53    | 2.56    | 45      | 180    | 0.3          |
| 2          | 33LN1020C   | 34LN1020C  | 0.57    | 3.10    | 25      | 100    | 0.5          |
| 2-1/2      | 33LN1024C   | 34LN1024C  | 0.72    | 4.00    | 14      | 56     | 1.1          |
| 3          | 33LN1030C   | 34LN1030C  | 0.80    | 4.60    | 20      | 40     | 1.4          |
| 4          | 33LN1040C   | 34LN1040C  | 0.90    | 5.80    | 7       | 14     | 2.9          |

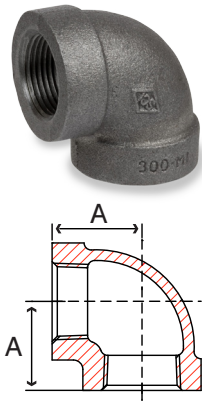
\*NPSL Threads



**Fig. 33WN1 & 34WN1 – Waste Nut**

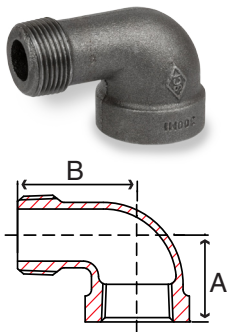
| Size<br>in | Part Number |            | A<br>in | B<br>in | Packing |        | Weight<br>lb |
|------------|-------------|------------|---------|---------|---------|--------|--------------|
|            | Black       | Galvanized |         |         | Inner   | Master |              |
| 1/2        | 33WN1004C   | 34WN1004C  | 2.00    | 3.15    | 25      | 200    | 0.4          |
| 3/4        | 33WN1006C   | 34WN1006C  | 2.50    | 3.87    | 20      | 160    | 0.5          |

**Fig. 33E 3 & 34E 3 – 90° Elbow**



| Size<br>in | Part Number |            | A<br>in | Packing |        | Weight<br>lb |
|------------|-------------|------------|---------|---------|--------|--------------|
|            | Black       | Galvanized |         | Inner   | Master |              |
| 1/4        | 33E 3002C   | 34E 3002C  | 0.94    | 150     | 300    | 0.1          |
| 3/8        | 33E 3003C   | 34E 3003C  | 1.06    | 60      | 120    | 0.2          |
| 1/2        | 33E 3004C   | 34E 3004C  | 1.25    | 60      | 120    | 0.4          |
| 3/4        | 33E 3006C   | 34E 3006C  | 1.44    | 50      | 100    | 0.6          |
| 1          | 33E 3010C   | 34E 3010C  | 1.63    | 20      | 40     | 1.0          |
| 1-1/4      | 33E 3012C   | 34E 3012C  | 1.94    | 14      | 28     | 1.6          |
| 1-1/2      | 33E 3014C   | 34E 3014C  | 2.13    | 12      | 24     | 2.2          |
| 2          | 33E 3020C   | 34E 3020C  | 2.50    | 6       | 12     | 3.5          |
| 2-1/2      | 33E 3024C   | 34E 3024C  | 2.94    | -       | 8      | 5.5          |
| 3          | 33E 3030C   | 34E 3030C  | 3.38    | -       | 4      | 8.4          |
| 4          | 33E 3040C   | 34E 3040C  | 4.50    | -       | 2      | 16.2         |

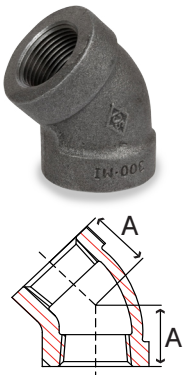
**Fig. 33SE3 & 34SE3 – 90° Street Elbow**



| Size<br>in | Part Number |            | A<br>in | B<br>in | Packing |        | Weight<br>lb |
|------------|-------------|------------|---------|---------|---------|--------|--------------|
|            | Black       | Galvanized |         |         | Inner   | Master |              |
| 1/4        | 33SE3002C   | 34SE3002C  | 0.94    | 1.44    | 140     | 280    | 0.1          |
| 3/8        | 33SE3003C   | 34SE3003C  | 1.06    | 1.63    | 120     | 240    | 0.2          |
| 1/2        | 33SE3004C   | 34SE3004C  | 1.25    | 2.00    | 60      | 120    | 0.3          |
| 3/4        | 33SE3006C   | 34SE3006C  | 1.44    | 2.19    | 40      | 80     | 0.5          |
| 1          | 33SE3010C   | 34SE3010C  | 1.63    | 2.56    | 30      | 60     | 0.9          |
| 1-1/4      | 33SE3012C   | 34SE3012C  | 1.94    | 2.88    | 18      | 36     | 1.5          |
| 1-1/2      | 33SE3014C   | 34SE3014C  | 2.13    | 3.13    | 12      | 24     | 2.0          |
| 2          | 33SE3020C   | 34SE3020C  | 2.50    | 3.69    | 6       | 12     | 3.3          |
| 2-1/2      | 33SE3024C   | 34SE3024C  | 2.94    | 4.50    | -       | 12     | 5.4          |
| 3          | 33SE3030C   | 34SE3030C  | 3.38    | 5.13    | -       | 4      | 8.4          |

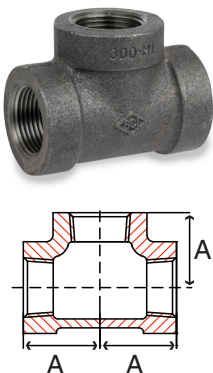
All male threads come with plastic protective caps

**Fig. 33F 3 & 34F 3 – 45° Elbow**



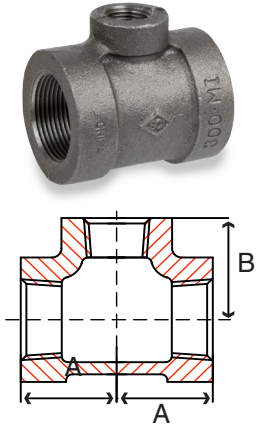
| Size<br>in | Part Number |            | A<br>in | Packing |        | Weight<br>lb |
|------------|-------------|------------|---------|---------|--------|--------------|
|            | Black       | Galvanized |         | Inner   | Master |              |
| 1/4        | 33F 3002C   | 34F 3002C  | 0.81    | 120     | 240    | 0.1          |
| 3/8        | 33F 3003C   | 34F 3003C  | 0.88    | 100     | 200    | 0.2          |
| 1/2        | 33F 3004C   | 34F 3004C  | 1.00    | 60      | 120    | 0.3          |
| 3/4        | 33F 3006C   | 34F 3006C  | 1.13    | 60      | 120    | 0.6          |
| 1          | 33F 3010C   | 34F 3010C  | 1.31    | 30      | 60     | 0.9          |
| 1-1/4      | 33F 3012C   | 34F 3012C  | 1.50    | 12      | 24     | 1.5          |
| 1-1/2      | 33F 3014C   | 34F 3014C  | 1.69    | 12      | 24     | 2.0          |
| 2          | 33F 3020C   | 34F 3020C  | 2.00    | 6       | 12     | 3.2          |
| 2-1/2      | 33F 3024C   | 34F 3024C  | 2.25    | 4       | 8      | 5.0          |
| 3          | 33F 3030C   | 34F 3030C  | 2.50    | -       | 4      | 7.5          |
| 4          | 33F 3040C   | 34F 3040C  | 2.81    | -       | 2      | 12.6         |

**Fig. 33T 3 & 34T 3 – Tee**



| Size<br>in | Part Number |            | A<br>in | Packing |        | Weight<br>lb |
|------------|-------------|------------|---------|---------|--------|--------------|
|            | Black       | Galvanized |         | Inner   | Master |              |
| 1/4        | 33T 3002C   | 34T 3002C  | 0.94    | 120     | 240    | 0.2          |
| 3/8        | 33T 3003C   | 34T 3003C  | 1.06    | 90      | 180    | 0.3          |
| 1/2        | 33T 3004C   | 34T 3004C  | 1.25    | 60      | 120    | 0.6          |
| 3/4        | 33T 3006C   | 34T 3006C  | 1.44    | 20      | 40     | 0.9          |
| 1          | 33T 3010C   | 34T 3010C  | 1.63    | 20      | 40     | 1.4          |
| 1-1/4      | 33T 3012C   | 34T 3012C  | 1.94    | 12      | 24     | 2.3          |
| 1-1/2      | 33T 3014C   | 34T 3014C  | 2.13    | 8       | 16     | 3.1          |
| 2          | 33T 3020C   | 34T 3020C  | 2.50    | 5       | 10     | 4.8          |
| 2-1/2      | 33T 3024C   | 34T 3024C  | 2.94    | 3       | 6      | 7.6          |
| 3          | 33T 3030C   | 34T 3030C  | 3.38    | -       | 4      | 11.6         |
| 4          | 33T 3040C   | 34T 3040C  | 4.50    | -       | 2      | 22.6         |

**Fig. 33RT3 & 34RT3 – Reducing Tee**



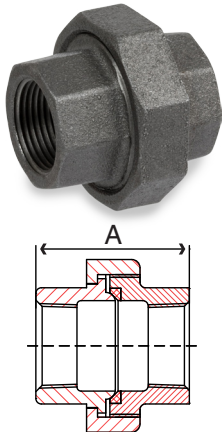
| Size<br>in    | Part Number  |              | A<br>in | B<br>in | Packing |        | Weight<br>lb |
|---------------|--------------|--------------|---------|---------|---------|--------|--------------|
|               | Black        | Galvanized   |         |         | Inner   | Master |              |
| 3/4 x 1/2     | 33RT3006004C | 34RT3006004C | 1.31    | 1.38    | 20      | 40     | 0.8          |
| 1 x 1/2       | 33RT3010004C | 34RT3010004C | 1.44    | 1.50    | 20      | 40     | 1.1          |
| 1 x 3/4       | 33RT3010006C | 34RT3010006C | 1.50    | 1.56    | 20      | 40     | 1.2          |
| 1-1/4 x 1/2   | 33RT3012004C | 34RT3012004C | 1.50    | 1.69    | 12      | 24     | 1.6          |
| 1-1/4 x 3/4   | 33RT3012006C | 34RT3012006C | 1.63    | 1.75    | 12      | 24     | 1.8          |
| 1-1/4 x 1     | 33RT3012010C | 34RT3012010C | 1.75    | 1.81    | 12      | 24     | 2.0          |
| 1-1/2 x 1/2   | 33RT3014004C | 34RT3014004C | 1.63    | 1.81    | 8       | 16     | 2.1          |
| 1-1/2 x 3/4   | 33RT3014006C | 34RT3014006C | 1.69    | 1.88    | 8       | 16     | 2.3          |
| 1-1/2 x 1     | 33RT3014010C | 34RT3014010C | 1.81    | 2.00    | 8       | 16     | 2.5          |
| 1-1/2 x 1-1/4 | 33RT3014012C | 34RT3014012C | 2.00    | 2.06    | 8       | 16     | 2.8          |
| 2 x 1/2       | 33RT3020004C | 34RT3020004C | 1.75    | 2.06    | 5       | 10     | 3.1          |
| 2 x 3/4       | 33RT3020006C | 34RT3020006C | 1.81    | 2.13    | 5       | 10     | 3.2          |
| 2 x 1         | 33RT3020010C | 34RT3020010C | 2.00    | 2.25    | 5       | 10     | 3.6          |
| 2 x 1-1/4     | 33RT3020012C | 34RT3020012C | 2.13    | 2.31    | 5       | 10     | 3.9          |
| 2 x 1-1/2     | 33RT3020014C | 34RT3020014C | 2.25    | 2.38    | 5       | 10     | 4.2          |
| 2-1/2 x 2     | 33RT3024020C | 34RT3024020C | 2.69    | 2.75    | -       | 8      | 6.7          |
| 3 x 2         | 33RT3030020C | 34RT3030020C | 2.81    | 3.13    | -       | 4      | 9.1          |
| 4 x 2-1/2     | 33RT3040024C | 34RT3040024C | 3.70    | 4.00    | 2       | 4      | 9.5          |
| 4 x 3         | 33RT3040030C | 34RT3040030C | 4.00    | 4.25    | 2       | 4      | 10.3         |

**Fig. 33C 3 & 34C 3 – Cap**



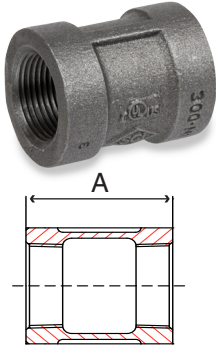
| Size<br>in | Part Number |            | A<br>in | Packing |        | Weight<br>lb |
|------------|-------------|------------|---------|---------|--------|--------------|
|            | Black       | Galvanized |         | Inner   | Master |              |
| 1/4        | 33C 3002C   | 34C 3002C  | 0.78    | 240     | 480    | 0.1          |
| 3/8        | 33C 3003C   | 34C 3003C  | 0.83    | 180     | 360    | 0.1          |
| 1/2        | 33C 3004C   | 34C 3004C  | 0.98    | 60      | 120    | 0.2          |
| 3/4        | 33C 3006C   | 34C 3006C  | 1.08    | 40      | 80     | 0.3          |
| 1          | 33C 3010C   | 34C 3010C  | 1.26    | 25      | 50     | 0.5          |
| 1-1/4      | 33C 3012C   | 34C 3012C  | 1.38    | 20      | 40     | 0.8          |
| 1-1/2      | 33C 3014C   | 34C 3014C  | 1.43    | 20      | 40     | 1.1          |
| 2          | 33C 3020C   | 34C 3020C  | 1.68    | 12      | 24     | 1.7          |
| 2-1/2      | 33C 3024C   | 34C 3024C  | 2.06    | 6       | 12     | 2.8          |
| 3          | 33C 3030C   | 34C 3030C  | 2.17    | 6       | 12     | 4.2          |
| 4          | 33C 3040C   | 34C 3040C  | 2.48    | 3       | 6      | 7.2          |

**Fig. 33U 3 & 34U 3 – Union with Brass Seat**



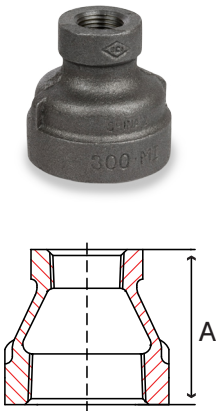
| Size<br>in | Part Number |            | A<br>in | Packing |        | Weight<br>lb |
|------------|-------------|------------|---------|---------|--------|--------------|
|            | Black       | Galvanized |         | Inner   | Master |              |
| 1/4        | 33U 3002C   | 34U 3002C  | 1.55    | 100     | 200    | 0.3          |
| 3/8        | 33U 3003C   | 34U 3003C  | 1.71    | 60      | 120    | 0.4          |
| 1/2        | 33U 3004C   | 34U 3004C  | 1.81    | 40      | 80     | 0.5          |
| 3/4        | 33U 3006C   | 34U 3006C  | 2.12    | 20      | 40     | 0.8          |
| 1          | 33U 3010C   | 34U 3010C  | 2.31    | 25      | 50     | 1.1          |
| 1-1/4      | 33U 3012C   | 34U 3012C  | 2.66    | 15      | 30     | 1.9          |
| 1-1/2      | 33U 3014C   | 34U 3014C  | 2.85    | 12      | 24     | 2.5          |
| 2          | 33U 3020C   | 34U 3020C  | 3.23    | 6       | 12     | 3.6          |
| 2-1/2      | 33U 3024C   | 34U 3024C  | 3.33    | 4       | 8      | 5.1          |
| 3          | 33U 3030C   | 34U 3030C  | 4.09    | 4       | 8      | 7.8          |
| 4          | 33U 3040C   | 34U 3040C  | 4.47    | -       | 4      | 13.1         |

**Fig. 33CP3 & 34CP3 – Banded Coupling**



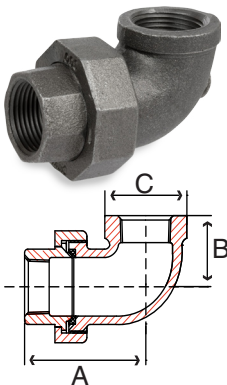
| Size<br>in | Part Number |            | A<br>in | Packing |        | Weight<br>lb |
|------------|-------------|------------|---------|---------|--------|--------------|
|            | Black       | Galvanized |         | Inner   | Master |              |
| 1/4        | 33CP3002C   | 34CP3002C  | 1.37    | 200     | 400    | 0.1          |
| 3/8        | 33CP3003C   | 34CP3003C  | 1.62    | 100     | 200    | 0.2          |
| 1/2        | 33CP3004C   | 34CP3004C  | 1.87    | 60      | 120    | 0.3          |
| 3/4        | 33CP3006C   | 34CP3006C  | 2.12    | 40      | 80     | 0.5          |
| 1          | 33CP3010C   | 34CP3010C  | 2.37    | 40      | 80     | 0.9          |
| 1-1/4      | 33CP3012C   | 34CP3012C  | 2.87    | 12      | 24     | 1.5          |
| 1-1/2      | 33CP3014C   | 34CP3014C  | 2.87    | 12      | 24     | 1.9          |
| 2          | 33CP3020C   | 34CP3020C  | 3.62    | 8       | 16     | 3.1          |
| 2-1/2      | 33CP3024C   | 34CP3024C  | 4.12    | 4       | 8      | 4.9          |
| 3          | 33CP3030C   | 34CP3030C  | 4.12    | 4       | 8      | 6.8          |
| 4          | 33CP3040C   | 34CP3040C  | 4.69    | -       | 4      | 11.3         |

**Fig. 33RC3 & 34RC3 – Reducing Coupling**



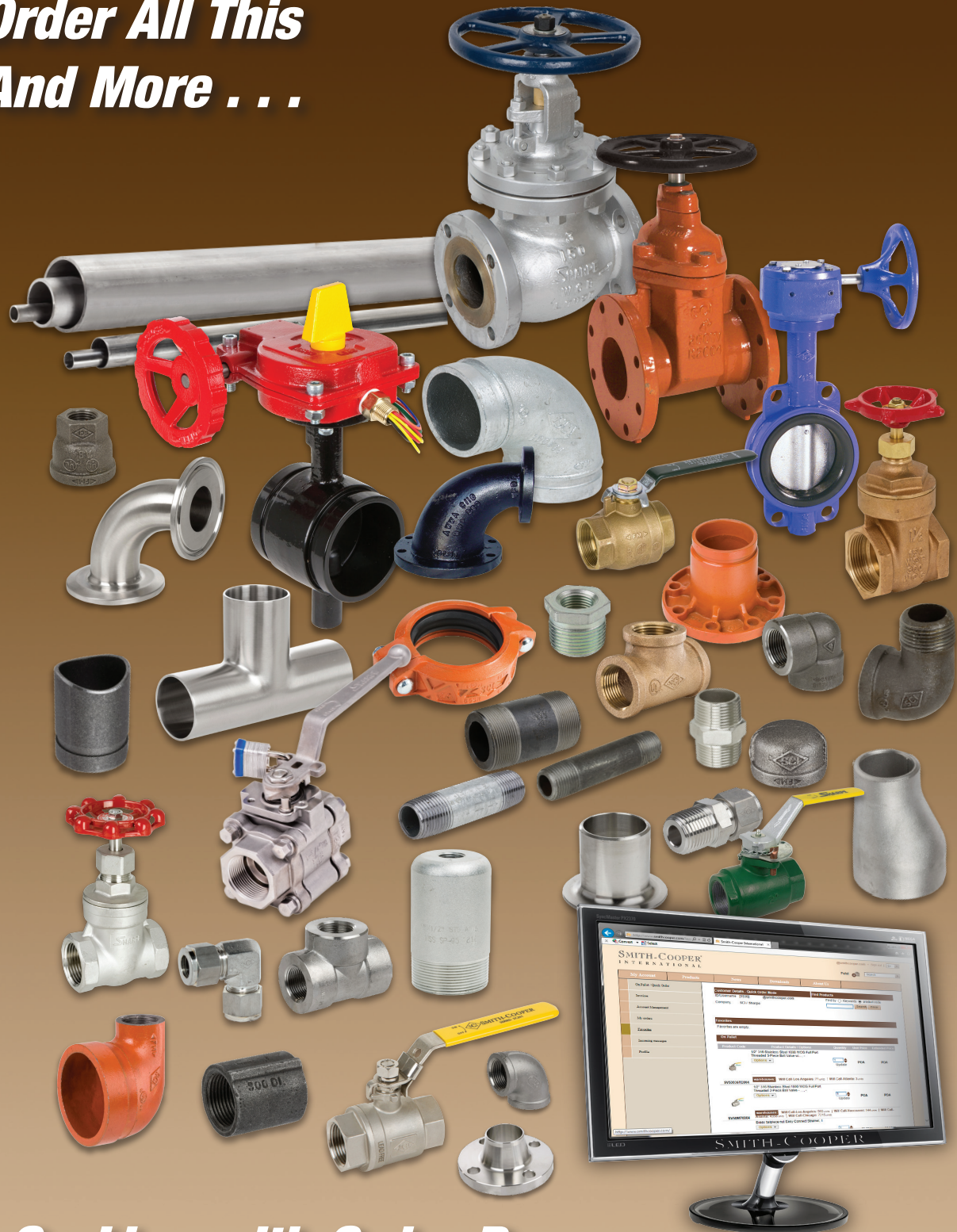
| Size<br>in    | Part Number  |              | A<br>in | Packing |        | Weight<br>lb |
|---------------|--------------|--------------|---------|---------|--------|--------------|
|               | Black        | Galvanized   |         | Inner   | Master |              |
| 3/8 x 1/4     | 33RC3003002C | 34RC3003002C | 1.44    | 100     | 200    | 0.2          |
| 1/2 x 1/4     | 33RC3004002C | 34RC3004002C | 1.69    | 100     | 200    | 0.2          |
| 1/2 x 3/8     | 33RC3004003C | 34RC3004003C | 1.69    | 100     | 200    | 0.3          |
| 3/4 x 3/8     | 33RC3006003C | 34RC3006003C | 1.75    | 30      | 60     | 0.4          |
| 3/4 x 1/2     | 33RC3006004C | 34RC3006004C | 1.75    | 45      | 90     | 0.4          |
| 1 x 1/2       | 33RC3010004C | 34RC3010004C | 2.00    | 50      | 100    | 0.6          |
| 1 x 3/4       | 33RC3010006C | 34RC3010006C | 2.00    | 50      | 100    | 0.7          |
| 1-1/4 x 1/2   | 33RC3012004C | 34RC3012004C | 2.38    | 25      | 50     | 0.9          |
| 1-1/4 x 3/4   | 33RC3012006C | 34RC3012006C | 2.38    | 30      | 60     | 1.0          |
| 1-1/4 x 1     | 33RC3012010C | 34RC3012010C | 2.38    | 30      | 60     | 1.1          |
| 1-1/2 x 1/2   | 33RC3014004C | 34RC3014004C | 2.69    | 30      | 60     | 1.3          |
| 1-1/2 x 3/4   | 33RC3014006C | 34RC3014006C | 2.69    | 30      | 60     | 1.3          |
| 1-1/2 x 1     | 33RC3014010C | 34RC3014010C | 2.69    | 20      | 40     | 1.4          |
| 1-1/2 x 1-1/4 | 33RC3014012C | 34RC3014012C | 2.69    | 20      | 40     | 1.6          |
| 2 x 1/2       | 33RC3020004C | 34RC3020004C | 3.19    | 16      | 32     | 1.9          |
| 2 x 3/4       | 33RC3020006C | 34RC3020006C | 3.19    | 16      | 32     | 2.1          |
| 2 x 1         | 33RC3020010C | 34RC3020010C | 3.19    | 16      | 32     | 2.2          |
| 2 x 1-1/4     | 33RC3020012C | 34RC3020012C | 3.19    | 12      | 24     | 2.3          |
| 2 x 1-1/2     | 33RC3020014C | 34RC3020014C | 3.19    | 12      | 24     | 2.5          |
| 2-1/2 x 1-1/2 | 33RC3024014C | 34RC3024014C | 3.69    | 4       | 8      | 3.6          |
| 2-1/2 x 2     | 33RC3024020C | 34RC3024020C | 3.69    | 4       | 8      | 3.9          |
| 3 x 2         | 33RC3030020C | 34RC3030020C | 4.06    | -       | 8      | 5.6          |
| 3 x 2-1/2     | 33RC3030024C | 34RC3030024C | 4.06    | -       | 8      | 5.9          |
| 4 x 3         | 33RC3040030C | 34RC3040030C | 4.38    | -       | 6      | 9.2          |

**Fig. 33UE3 & 34UE3 – Union Elbow with Brass Seat**



| Size<br>in | Part Number |            | A<br>in | B<br>in | C<br>in | Packing |        | Weight<br>lb |
|------------|-------------|------------|---------|---------|---------|---------|--------|--------------|
|            | Black       | Galvanized |         |         |         | Inner   | Master |              |
| 1/2        | 33UE3004C   | 34UE3004C  | 2.16    | 0.98    | 1.20    | 40      | 80     | 0.3          |
| 3/4        | 33UE3006C   | 34UE3006C  | 2.36    | 1.14    | 1.46    | 30      | 60     | 0.9          |
| 1          | 33UE3010C   | 34UE3010C  | 2.81    | 1.34    | 1.77    | 20      | 40     | 1.3          |
| 1-1/4      | 33UE3012C   | 34UE3012C  | 3.23    | 1.61    | 2.15    | 10      | 20     | 2.0          |
| 1-1/2      | 33UE3014C   | 34UE3014C  | 3.53    | 1.80    | 2.43    | 10      | 20     | 2.5          |
| 2          | 33UE3020C   | 34UE3020C  | 4.10    | 2.14    | 2.96    | 5       | 10     | 3.7          |

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