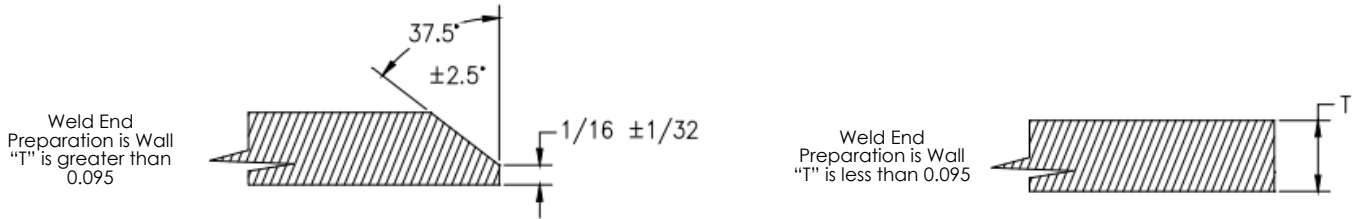




# BUTT WELD FITTINGS

Material:  
NAVINIC 10<sup>®</sup> CuNi10Fe1Mn alloy 706  
NAVINIC 30<sup>®</sup> CuNi30Fe1Mn alloy 715



# CL200 Butt Weld



|                                  |       |
|----------------------------------|-------|
| Weld End Preparation Detail      | pg 3  |
| 90° Short Radius Elbows          | pg 4  |
| 90° Long Radius Elbows           | pg 5  |
| 45° Elbows                       | pg 6  |
| Tees                             | pg 7  |
| 90° Long Radius Elbows, Reducing | pg 8  |
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| Long-Turn Double Sweep Tees      | pg 12 |
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| 180° Return Bends                | pg 14 |
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| Eccentric Reducers               | pg 17 |
| Sleeves                          | pg 18 |
| CL700                            | pg 19 |

| Class 200    |           |                |                 |
|--------------|-----------|----------------|-----------------|
| Nominal inch | Maxium OD | Wall Thickness | Minimum Tangent |
| 1/4          | 0.540     | 0.065          | 0.281           |
| 3/8          | 0.675     | 0.065          | 0.375           |
| 1/2          | 0.840     | 0.065          | 0.438           |
| 3/4          | 1.050     | 0.065          | 0.469           |
| 1            | 1.315     | 0.065          | 0.500           |
| 1 1/4        | 1.660     | 0.072          | 0.563           |
| 1 1/2        | 1.900     | 0.072          | 0.688           |
| 2            | 2.375     | 0.083          | 0.719           |
| 2 1/2        | 2.875     | 0.083          | 0.875           |
| 3            | 3.500     | 0.095          | 0.906           |
| 3 1/2        | 4.000     | 0.095          | 0.938           |
| 4            | 4.500     | 0.109          | 0.969           |
| 5            | 5.563     | 0.125          | 1.094           |
| 6            | 6.625     | 0.134          | 1.172           |
| 7            | 7.625     | 0.134          | 1.281           |
| 8            | 8.625     | 0.148          | 1.375           |
| 9            | 9.625     | 0.187          | 1.563           |
| 10           | 10.750    | 0.187          | 1.563           |
| 12           | 12.750    | 0.250          | 1.688           |
| 14           | 14.000    | 0.250          | N/A             |
| 16           | 16.000    | 0.250          | N/A             |
| 18           | 18.000    | 0.250          | N/A             |
| 20           | 20.000    | 0.250          | N/A             |
| 24           | 24.000    | 0.250          | N/A             |

90° Short Radius Elbows

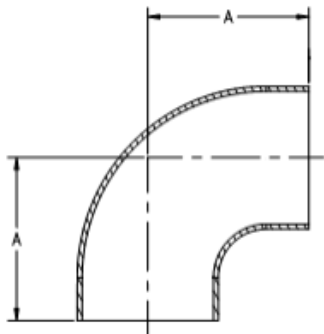


90° Long Radius Elbows

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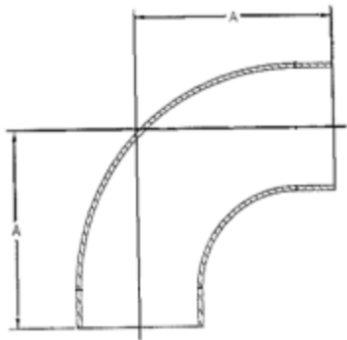
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Material:  
NAVINIC 10<sup>®</sup> CuNi10Fe1Mn alloy 706  
NAVINIC 30<sup>®</sup> CuNi30Fe1Mn alloy 715  
Dimension: DWG 810-1385880 or similar



| Class 200         |        |                        |
|-------------------|--------|------------------------|
| Nominal Pipe Size | A      | Estimated Weight (lbs) |
| 1                 | 1.500  | 0.15                   |
| 1 1/4             | 1.813  | 0.24                   |
| 1 1/2             | 2.188  | 0.36                   |
| 2                 | 2.719  | 0.62                   |
| 2 1/2             | 3.375  | 1.07                   |
| 3                 | 3.906  | 1.70                   |
| 3 1/2             | 4.438  | 2.70                   |
| 4                 | 4.969  | 3.90                   |
| 5                 | 6.094  | 7.20                   |
| 6                 | 7.172  | 11.80                  |
| 7                 | 8.281  | 18.20                  |
| 8                 | 9.375  | 26.50                  |
| 9                 | 10.563 | 38.80                  |
| 10                | 11.563 | 49.20                  |
| 12                | 13.688 | 70.50                  |
| 14                | 14.500 | 85.00                  |
| 16                | 16.500 | 108.00                 |
| 18                | 18.500 | 140.00                 |
| 20                | 20.500 | 175.00                 |
| 24                | 24.500 | 240.00                 |

Material:  
NAVINIC 10<sup>®</sup> CuNi10Fe1Mn alloy 706  
NAVINIC 30<sup>®</sup> CuNi30Fe1Mn alloy 715  
Dimension: DWG 810-1385880 or similar



| Class 200         |        |                        |
|-------------------|--------|------------------------|
| Nominal Pipe Size | A      | Estimated Weight (lbs) |
| 1/4               | 1.281  | 0.05                   |
| 3/8               | 1.625  | 0.06                   |
| 1/2               | 1.938  | 0.08                   |
| 3/4               | 1.594  | 0.10                   |
| 1                 | 2.000  | 0.18                   |
| 1 1/4             | 2.438  | 0.30                   |
| 1 1/2             | 2.938  | 0.45                   |
| 2                 | 3.719  | 0.76                   |
| 2 1/2             | 4.625  | 1.30                   |
| 3                 | 5.406  | 2.20                   |
| 3 1/2             | 6.250  | 3.30                   |
| 4                 | 6.969  | 4.80                   |
| 5                 | 8.594  | 9.00                   |
| 6                 | 10.172 | 15.00                  |
| 7                 | 11.781 | 23.10                  |
| 8                 | 13.375 | 33.60                  |
| 9                 | 15.063 | 49.40                  |
| 10                | 16.563 | 60.80                  |
| 12                | 19.688 | 96.00                  |
| 14                | 21.500 | 120.00                 |
| 16                | 24.500 | 160.00                 |
| 18                | 27.500 | 200.00                 |
| 20                | 30.500 | 250.00                 |
| 24                | 36.500 | 545.00                 |

90° Long Radius Elbows, Reducing

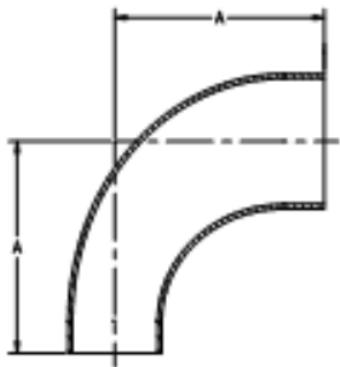


45° Elbows

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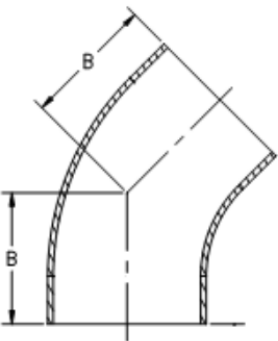
WWW.AMERITUBE.NET // 254.580.9888

Material:  
NAVINIC 10® CuNi10Fe1Mn alloy 706  
NAVINIC 30® CuNi30Fe1Mn alloy 715  
Dimension: DWG 810-1385880 or similar



| Class 200         |        |                        |
|-------------------|--------|------------------------|
| Nominal Pipe Size | A      | Estimated Weight (lbs) |
| 2 x 3/4           | 3.719  | 0.66                   |
| 2 x 1             | 3.719  | 0.70                   |
| 2 x 1 1/4         | 3.719  | 0.73                   |
| 2 x 1 1/2         | 3.719  | 0.75                   |
| 2 1/2 x 1 1/4     | 4.625  | 1.10                   |
| 2 1/2 x 1 1/2     | 4.625  | 1.20                   |
| 2 1/2 x 2         | 4.625  | 1.20                   |
| 3 x 2 1/2         | 5.406  | 2.10                   |
| 3 x 2             | 5.406  | 2.10                   |
| 3 x 2 1/2         | 5.406  | 2.20                   |
| 3 1/2 x 1 1/2     | 6.188  | 3.10                   |
| 3 1/2 x 2         | 6.188  | 3.10                   |
| 3 1/2 x 2 1/2     | 6.188  | 3.20                   |
| 3 1/2 x 3         | 6.188  | 3.20                   |
| 4 x 1 1/2         | 6.969  | 4.50                   |
| 4 x 2             | 6.969  | 4.70                   |
| 4 x 2 1/2         | 6.969  | 4.70                   |
| 4 x 3             | 6.969  | 4.70                   |
| 4 x 3 1/2         | 6.969  | 4.80                   |
| 5 x 2 1/2         | 8.594  | 8.60                   |
| 5 x 3             | 8.594  | 8.70                   |
| 5 x 3 1/2         | 8.594  | 8.80                   |
| 5 x 4             | 8.594  | 8.90                   |
| 6 x 3             | 10.172 | 14.00                  |
| 6 x 3 1/2         | 10.172 | 14.60                  |
| 6 x 4             | 10.172 | 14.80                  |
| 6 x 5             | 10.172 | 14.90                  |
| 8 x 4             | 13.375 | 28.90                  |
| 8 x 5             | 13.375 | 29.40                  |
| 8 x 6             | 13.375 | 31.20                  |
| 10 x 6            | 16.563 | 58.50                  |
| 10 x 8            | 16.563 | 63.70                  |
| 12 x 6            | 19.688 | 85.20                  |
| 12 x 8            | 19.688 | 91.50                  |
| 12 x 10           | 19.688 | 94.30                  |

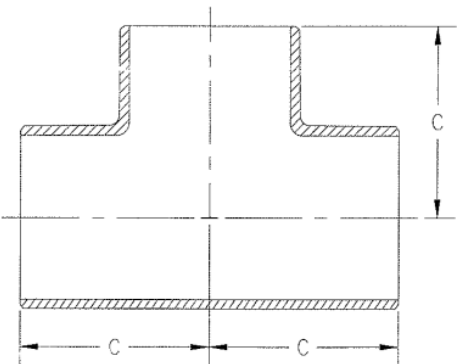
Material:  
NAVINIC 10® CuNi10Fe1Mn alloy 706  
NAVINIC 30® CuNi30Fe1Mn alloy 715  
Dimension: DWG 810-1385880 or similar



| Class 200         |       |                        |
|-------------------|-------|------------------------|
| Nominal Pipe Size | A     | Estimated Weight (lbs) |
| 1/4               | 0.703 | 0.03                   |
| 3/8               | 0.891 | 0.04                   |
| 1/2               | 1.063 | 0.05                   |
| 3/4               | 0.938 | 0.06                   |
| 1                 | 1.125 | 0.11                   |
| 1 1/4             | 1.344 | 0.18                   |
| 1 1/2             | 1.625 | 0.27                   |
| 2                 | 1.969 | 0.48                   |
| 2 1/2             | 2.438 | 0.83                   |
| 3                 | 2.766 | 1.20                   |
| 3 1/2             | 3.172 | 2.00                   |
| 4                 | 3.453 | 2.90                   |
| 5                 | 4.203 | 5.30                   |
| 6                 | 4.906 | 8.60                   |
| 7                 | 5.625 | 13.30                  |
| 8                 | 6.344 | 19.30                  |
| 10                | 7.156 | 28.10                  |
| 12                | 7.781 | 37.50                  |
| 14                | 9.141 | 45.00                  |

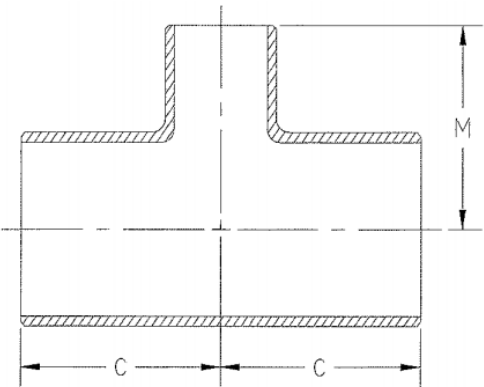


Material:  
NAVINIC 10<sup>®</sup> CuNi10Fe1Mn alloy 706  
NAVINIC 30<sup>®</sup> CuNi30Fe1Mn alloy 715  
Dimension: DWG 810-1385880 or similar



| Class 200         |        |                        |
|-------------------|--------|------------------------|
| Nominal Pipe Size | C      | Estimated Weight (lbs) |
| 1/4               | 0.688  | 0.03                   |
| 3/8               | 0.906  | 0.04                   |
| 1/2               | 1.094  | 0.09                   |
| 3/4               | 1.250  | 0.18                   |
| 1                 | 1.500  | 0.28                   |
| 1 1/4             | 1.875  | 0.45                   |
| 1 1/2             | 2.250  | 0.62                   |
| 2                 | 2.500  | 0.86                   |
| 2 1/2             | 3.000  | 1.40                   |
| 3                 | 3.375  | 2.10                   |
| 3 1/2             | 3.750  | 3.10                   |
| 4                 | 4.125  | 4.40                   |
| 5                 | 4.875  | 7.90                   |
| 6                 | 5.625  | 12.70                  |
| 7                 | 6.313  | 18.90                  |
| 8                 | 7.000  | 26.70                  |
| 9                 | 7.750  | 38.60                  |
| 10                | 8.500  | 51.60                  |
| 12                | 10.000 | 90.00                  |

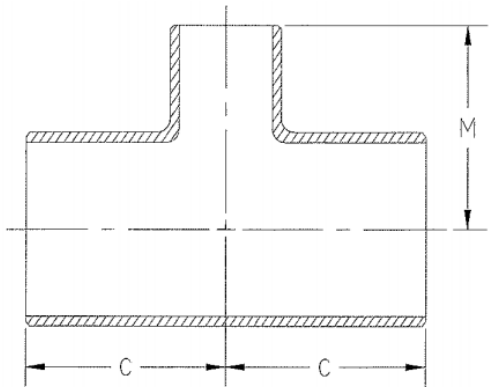
Material:  
NAVINIC 10<sup>®</sup> CuNi10Fe1Mn alloy 706  
NAVINIC 30<sup>®</sup> CuNi30Fe1Mn alloy 715  
Dimension: DWG 810-1385880 or similar



| Class 200         |       |       |                        |
|-------------------|-------|-------|------------------------|
| Nominal Pipe Size | C     | M     | Estimated Weight (lbs) |
| 3/8 x 1/4         | 0.906 | 0.869 | 0.04                   |
| 1/2 x 1/4         | 1.094 | 0.951 | 0.08                   |
| 1/2 x 3/8         | 1.094 | 1.045 | 0.08                   |
| 3/4 x 1/4         | 1.250 | 1.056 | 0.15                   |
| 3/4 x 3/8         | 1.250 | 1.150 | 0.16                   |
| 3/4 x 1/2         | 1.250 | 1.275 | 0.16                   |
| 1 x 1/4           | 1.500 | 1.189 | 0.25                   |
| 1 x 3/8           | 1.500 | 1.283 | 0.26                   |
| 1 x 1/2           | 1.500 | 1.408 | 0.26                   |
| 1 x 3/4           | 1.500 | 1.470 | 0.27                   |
| 1-1/4 x 1/2       | 1.875 | 1.580 | 0.64                   |
| 1-1/4 x 3/4       | 1.875 | 1.643 | 0.65                   |
| 1-1/4 x 1         | 1.875 | 1.705 | 0.66                   |
| 1-1/2 x 1/2       | 2.250 | 1.700 | 0.85                   |
| 1-1/2 x 3/4       | 2.250 | 1.763 | 0.87                   |
| 1-1/2 x 1         | 2.250 | 1.825 | 0.90                   |
| 1-1/2 x 1-1/4     | 2.250 | 1.950 | 0.92                   |
| 2 x 1/2           | 2.500 | 1.938 | 1.30                   |
| 2 x 3/4           | 2.500 | 2.000 | 1.40                   |
| 2 x 1             | 2.500 | 2.063 | 1.40                   |
| 2 x 1-1/4         | 2.500 | 2.188 | 1.50                   |
| 2 x 1-1/2         | 2.500 | 2.438 | 1.50                   |
| 2-1/2 x 1         | 3.000 | 2.313 | 1.20                   |
| 2-1/2 x 1-1/4     | 3.000 | 2.438 | 1.30                   |
| 2-1/2 x 1-1/2     | 3.000 | 2.688 | 1.30                   |
| 2-1/2 x 2         | 3.000 | 2.750 | 1.30                   |
| 3 x 1             | 3.375 | 2.625 | 1.90                   |
| 3 x 1-1/4         | 3.375 | 2.750 | 2.00                   |
| 3 x 1-1/2         | 3.375 | 3.000 | 2.00                   |
| 3 x 2             | 3.375 | 3.063 | 2.00                   |
| 3 x 2-1/2         | 3.375 | 3.313 | 2.90                   |
| 3-1/2 x 1-1/4     | 3.750 | 3.000 | 3.00                   |
| 3-1/2 x 1-1/2     | 3.750 | 3.250 | 3.00                   |
| 3-1/2 x 2-1/2     | 3.750 | 3.313 | 3.00                   |
| 3-1/2 x 2-1/2     | 3.750 | 3.563 | 3.00                   |
| 3-1/2 x 3         | 3.750 | 3.656 | 3.00                   |

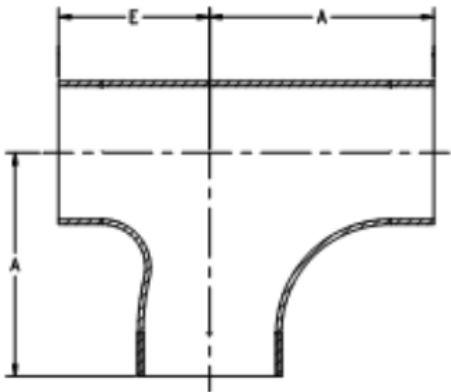


Material:  
NAVINIC 10<sup>®</sup> CuNi10Fe1Mn alloy 706  
NAVINIC 30<sup>®</sup> CuNi30Fe1Mn alloy 715  
Dimension: DWG 810-1385880 or similar



| Class 200         |        |       |                        |
|-------------------|--------|-------|------------------------|
| Nominal Pipe Size | C      | M     | Estimated Weight (lbs) |
| 4 X 1-1/2         | 4.125  | 3.500 | 4.10                   |
| 4 X 2             | 4.125  | 3.560 | 4.20                   |
| 4 X 2-1/2         | 4.125  | 3.813 | 4.30                   |
| 4 X 3             | 4.125  | 3.906 | 4.30                   |
| 4 X 3-1/2         | 4.125  | 4.000 | 4.30                   |
| 5 X 2             | 4.875  | 4.094 | 7.40                   |
| 5 X 2-1/2         | 4.875  | 4.344 | 7.50                   |
| 5 X 3             | 4.875  | 4.438 | 7.70                   |
| 5 X 3-1/2         | 4.875  | 4.532 | 7.70                   |
| 5 X 4             | 4.875  | 4.594 | 7.80                   |
| 6 X 2             | 5.625  | 4.625 | 12.00                  |
| 6 X 2-1/2         | 5.625  | 4.875 | 12.10                  |
| 6 X 3             | 5.625  | 4.969 | 12.30                  |
| 6 X 3-1/2         | 5.625  | 5.063 | 12.40                  |
| 6 X 4             | 5.625  | 5.125 | 12.50                  |
| 6 X 5             | 5.625  | 5.375 | 12.50                  |
| 8 X 4             | 7.000  | 6.125 | 25.70                  |
| 8 X 5             | 7.000  | 6.375 | 25.80                  |
| 8 X 6             | 7.000  | 6.531 | 25.80                  |
| 10 X 6            | 8.500  | 7.594 | 48.70                  |
| 10 X 8            | 8.500  | 8.000 | 48.80                  |
| 12 X 6            | 10.000 | 8.594 | 83.20                  |
| 12 X 8            | 10.000 | 9.000 | 85.10                  |
| 12 X 10           | 10.000 | 9.375 | 87.30                  |

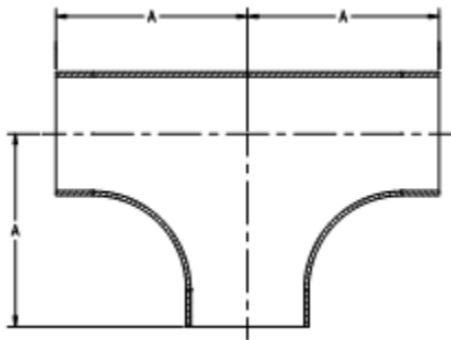
Material:  
NAVINIC 10<sup>®</sup> CuNi10Fe1Mn alloy 706  
NAVINIC 30<sup>®</sup> CuNi30Fe1Mn alloy 715  
Dimension: DWG 810-1385880 or similar



| Class 200         |        |       |                        |
|-------------------|--------|-------|------------------------|
| Nominal Pipe Size | A      | E     | Estimated Weight (lbs) |
| 2                 | 3.719  | 2.500 | 3.10                   |
| 2 1/2             | 4.625  | 3.000 | 3.60                   |
| 3                 | 5.406  | 3.375 | 4.20                   |
| 3 1/2             | 6.250  | 3.750 | 5.70                   |
| 4                 | 6.969  | 4.125 | 8.10                   |
| 5                 | 8.594  | 4.875 | 11.70                  |
| 6                 | 10.172 | 5.625 | 20.00                  |
| 7                 | 11.781 | 6.313 | 28.60                  |
| 8                 | 13.375 | 7.000 | 35.70                  |

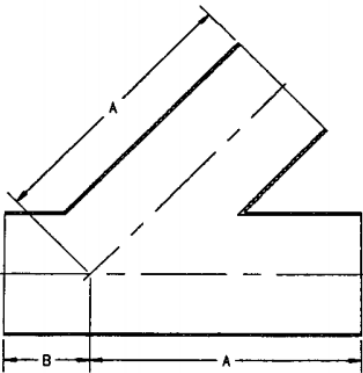


Material:  
NAVINIC 10® CuNi10Fe1Mn alloy 706  
NAVINIC 30® CuNi30Fe1Mn alloy 715  
Dimension: DWG 810-1385880 or similar



| Class 200         |        |                        |
|-------------------|--------|------------------------|
| Nominal Pipe Size | A      | Estimated Weight (lbs) |
| 2                 | 3.719  | 3.30                   |
| 2 1/2             | 4.625  | 3.80                   |
| 3                 | 5.406  | 4.50                   |
| 3 1/2             | 6.250  | 6.10                   |
| 4                 | 6.969  | 8.60                   |
| 5                 | 8.594  | 12.30                  |
| 6                 | 10.172 | 22.50                  |
| 7                 | 11.781 | 30.10                  |
| 8                 | 13.375 | 39.80                  |
| 10                | 16.562 | 60                     |

Material:  
NAVINIC 10® CuNi10Fe1Mn alloy 706  
NAVINIC 30® CuNi30Fe1Mn alloy 715  
Dimension: DWG 810-1385880 or similar



| Class 200         |        |       |                        |
|-------------------|--------|-------|------------------------|
| Nominal Pipe Size | A      | B     | Estimated Weight (lbs) |
| 1                 | 5.750  | 1.750 | 0.90                   |
| 1 1/4             | 6.250  | 1.750 | 1.20                   |
| 1 1/2             | 7.000  | 2.000 | 2.40                   |
| 2                 | 8.000  | 2.500 | 3.80                   |
| 2 1/2             | 9.500  | 2.500 | 5.40                   |
| 3                 | 10.000 | 3.000 | 6.80                   |
| 3 1/2             | 11.500 | 3.000 | 9.20                   |
| 4                 | 12.000 | 3.000 | 11.60                  |
| 5                 | 13.500 | 3.500 | 19.10                  |
| 6                 | 14.500 | 3.500 | 26.00                  |
| 8                 | 17.500 | 4.500 | 40.60                  |
| 10                | 20.500 | 5.000 | 65.50                  |
| 12                | 24.500 | 5.500 | 95.50                  |

180° Return Bends

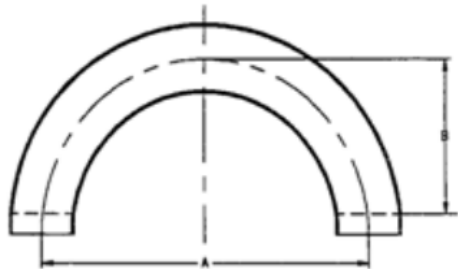


Caps

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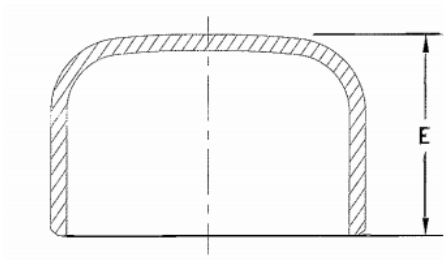
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**Material:**  
NAVINIC 10® CuNi10Fe1Mn alloy 706  
NAVINIC 30® CuNi30Fe1Mn alloy 715  
Dimension: DWG 810-1385880 or similar



| Class 200         |        |        |                        |
|-------------------|--------|--------|------------------------|
| Nominal Pipe Size | A      | B      | Estimated Weight (lbs) |
| 1                 | 3.000  | 1.500  | 0.55                   |
| 1 1/4             | 3.750  | 1.875  | 0.68                   |
| 1 1/2             | 4.500  | 2.250  | 0.95                   |
| 2                 | 6.00   | 3.000  | 1.60                   |
| 2 1/2             | 7.500  | 3.750  | 2.80                   |
| 3                 | 9.000  | 4.500  | 4.60                   |
| 3 1/2             | 10.500 | 5.250  | 7.00                   |
| 4                 | 12.000 | 6.000  | 10.30                  |
| 5                 | 15.000 | 7.500  | 19.00                  |
| 6                 | 18.000 | 9.000  | 31.30                  |
| 8                 | 24.000 | 12.000 | 70.20                  |
| 10                | 30.000 | 15.000 | 138.00                 |
| 12                | 36.000 | 18.000 | 175.00                 |

**Material:**  
NAVINIC 10® CuNi10Fe1Mn alloy 706  
NAVINIC 30® CuNi30Fe1Mn alloy 715  
Dimension: DWG 810-1385880 or similar



| Class 200         |       |                        |
|-------------------|-------|------------------------|
| Nominal Pipe Size | E     | Estimated Weight (lbs) |
| 1/4               | 0.750 | 0.05                   |
| 3/8               | 1.000 | 0.07                   |
| 1/2               | 1.250 | 0.10                   |
| 3/4               | 1.250 | 0.13                   |
| 1                 | 1.500 | 0.18                   |
| 1 1/4             | 1.500 | 0.25                   |
| 1 1/2             | 1.500 | 0.27                   |
| 2                 | 1.500 | 0.39                   |
| 2 1/2             | 1.500 | 0.44                   |
| 3                 | 2.000 | 0.75                   |
| 3 1/2             | 2.500 | 1.00                   |
| 4                 | 2.500 | 1.30                   |
| 5                 | 3.000 | 2.10                   |
| 6                 | 3.500 | 3.00                   |
| 7                 | 3.500 | 3.30                   |
| 8                 | 4.000 | 4.60                   |
| 9                 | 4.500 | 7.00                   |
| 10                | 5.000 | 8.70                   |
| 12                | 6.000 | 16.20                  |

Concentric Reducers



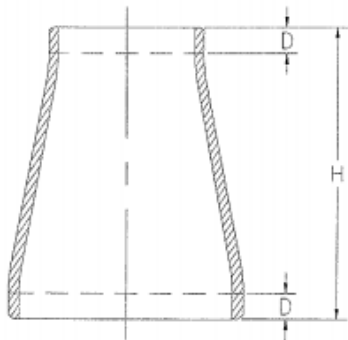
Eccentric Reducers

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Material:  
NAVINIC 10® CuNi10Fe1Mn alloy 706  
NAVINIC 30® CuNi30Fe1Mn alloy 715

Dimension:  
DWG 810-1385880 or similar

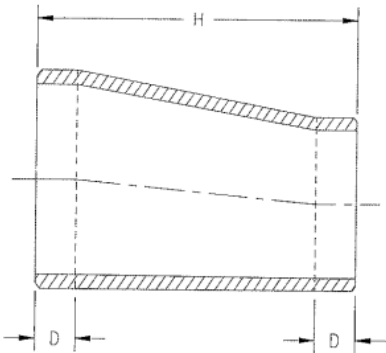


| Class 200         |       |                        |
|-------------------|-------|------------------------|
| Nominal Pipe Size | H     | Estimated Weight (lbs) |
| 3/4 x 1/2         | 1.500 | 0.09                   |
| 1 x 1/2           | 2.000 | 0.15                   |
| 1 x 3/4           | 2.000 | 0.19                   |
| 1-1/4 x 1/2       | 2.000 | 0.19                   |
| 1-1/4 x 3/4       | 2.000 | 0.19                   |
| 1-1/4 x 1         | 2.000 | 0.19                   |
| 1-1/2 X 1/2       | 2.500 | 0.29                   |
| 1-1/2 X 3/4       | 2.500 | 0.29                   |
| 1-1/2 X 1         | 2.500 | 0.29                   |
| 1-1/2 X 1-1/4     | 2.500 | 0.29                   |
| 2 X 1/2           | 3.000 | 0.41                   |
| 2 X 3/4           | 3.000 | 0.41                   |
| 2 X 1             | 3.000 | 0.41                   |
| 2 X 1-1/4         | 3.000 | 0.41                   |
| 2 X 1-1/2         | 3.000 | 0.41                   |
| 2-1/2 X 3/4       | 3.500 | 0.63                   |
| 2-1/2 X 1         | 3.500 | 0.63                   |
| 2-1/2 X 1-1/4     | 3.500 | 0.63                   |
| 2-1/2 X 1-1/2     | 3.500 | 0.63                   |
| 2-1/2 X 2         | 3.500 | 0.63                   |
| 3 X 1             | 3.500 | 0.87                   |
| 3 X 1-1/4         | 3.500 | 0.87                   |
| 3 X 1-1/2         | 3.500 | 0.87                   |
| 3 X 2             | 3.500 | 0.87                   |
| 3 X 2-1/2         | 3.500 | 0.87                   |
| 3-1/2 x 1-1/4     | 4.000 | 1.40                   |
| 3-1/2 x 1-1/2     | 4.000 | 1.40                   |
| 3-1/2 x 2         | 4.000 | 1.40                   |
| 3-1/2 x 2-1/2     | 4.000 | 1.40                   |
| 3-1/2 x 3         | 4.000 | 1.40                   |

| Class 200         |        |                        |
|-------------------|--------|------------------------|
| Nominal Pipe Size | H      | Estimated Weight (lbs) |
| 4 X 1-1/2         | 4.000  | 1.70                   |
| 4 X 2             | 4.000  | 1.70                   |
| 4 X 2-1/2         | 4.000  | 1.70                   |
| 4 X 3             | 4.000  | 1.70                   |
| 4 X 3-1/2         | 4.000  | 1.70                   |
| 5 X 2-1/2         | 5.000  | 3.10                   |
| 5 X 3             | 5.000  | 3.10                   |
| 5 X 3-1/2         | 5.000  | 3.10                   |
| 5 X 4             | 5.000  | 3.10                   |
| 6 X 2             | 5.500  | 4.10                   |
| 6 X 2-1/2         | 5.500  | 4.30                   |
| 6 X 3             | 5.500  | 4.30                   |
| 6 X 3-1/2         | 5.500  | 4.50                   |
| 6 X 4             | 5.500  | 5.00                   |
| 6 X 5             | 5.500  | 5.00                   |
| 8 X 4             | 6.000  | 9.40                   |
| 8 X 5             | 6.000  | 9.40                   |
| 8 X 6             | 6.000  | 9.40                   |
| 10 X 6            | 7.000  | 18.00                  |
| 10 X 8            | 7.000  | 18.00                  |
| 12 X 6            | 8.000  | 22.50                  |
| 12 X 8            | 8.000  | 24.00                  |
| 12 X 10           | 8.000  | 27.60                  |
| 14 X 6            | 13.000 | 38.30                  |
| 14 X 10           | 13.000 | 43.20                  |
| 14 X 12           | 13.000 | 50.00                  |
| 16 X 10           | 14.000 | 47.30                  |
| 16 X 12           | 14.000 | 51.00                  |
| 16 X 14           | 14.000 | 53.40                  |

Material:  
NAVINIC 10® CuNi10Fe1Mn alloy 706  
NAVINIC 30® CuNi30Fe1Mn alloy 715

Dimension:  
DWG 810-1385880 or similar

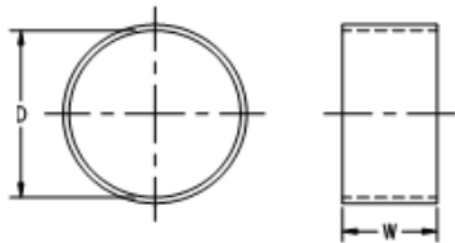


| Class 200         |       |                        |
|-------------------|-------|------------------------|
| Nominal Pipe Size | H     | Estimated Weight (lbs) |
| 1-1/2 X 1/2       | 2.500 | 0.31                   |
| 1-1/2 X 1         | 2.500 | 0.31                   |
| 1-1/2 X 1-1/4     | 2.500 | 0.31                   |
| 2 X 1/2           | 3.000 | 0.42                   |
| 2 X 3/4           | 3.000 | 0.42                   |
| 2 X 1             | 3.000 | 0.42                   |
| 2 X 1-1/4         | 3.000 | 0.42                   |
| 2 X 1-1/2         | 3.000 | 0.42                   |
| 2-1/2 X 3/4       | 3.500 | 0.63                   |
| 2-1/2 X 1         | 3.500 | 0.63                   |
| 2-1/2 X 1-1/4     | 3.500 | 0.63                   |
| 2-1/2 X 1-1/2     | 3.500 | 0.63                   |
| 2-1/2 X 2         | 3.500 | 0.63                   |
| 3 X 1             | 3.500 | 0.88                   |
| 3 X 1-1/4         | 3.500 | 0.88                   |
| 3 X 1-1/2         | 3.500 | 0.88                   |
| 3 X 2             | 3.500 | 0.88                   |
| 3 X 2-1/2         | 3.500 | 0.88                   |
| 3-1/2 X 1-1/4     | 4.000 | 1.40                   |
| 3-1/2 X 1-1/2     | 4.000 | 1.40                   |
| 3-1/2 X 2         | 4.000 | 1.40                   |
| 3-1/2 X 2-1/2     | 4.000 | 1.40                   |
| 3-1/2 X 3         | 4.000 | 1.40                   |

| Class 200         |       |                        |
|-------------------|-------|------------------------|
| Nominal Pipe Size | H     | Estimated Weight (lbs) |
| 5 X 2-1/2         | 5.000 | 3.1                    |
| 5 X 3             | 5.000 | 3.1                    |
| 5 X 3-1/2         | 5.000 | 3.1                    |
| 5 X 4             | 5.000 | 3.1                    |
| 4 X 1-1/2         | 4.000 | 1.7                    |
| 4 X 2             | 4.000 | 1.7                    |
| 4 X 2-1/2         | 4.000 | 1.7                    |
| 4 X 3             | 4.000 | 1.7                    |
| 4 X 3-1/2         | 4.000 | 1.7                    |
| 6 X 2             | 5.500 | 4.1                    |
| 6 X 2-1/2         | 5.500 | 4.3                    |
| 6 X 3             | 5.500 | 4.3                    |
| 6 X 3-1/2         | 5.500 | 4.5                    |
| 6 X 4             | 5.500 | 5.0                    |
| 6 X 5             | 5.500 | 5.0                    |
| 8 X 4             | 6.000 | 9.4                    |
| 8 X 5             | 6.000 | 9.4                    |
| 8 X 6             | 6.000 | 9.4                    |
| 10 X 6            | 7.000 | 18.0                   |
| 10 X 8            | 7.000 | 18.0                   |
| 12 X 6            | 8.000 | 22.5                   |
| 12 X 8            | 8.000 | 24.0                   |
| 12 X 10           | 8.000 | 27.6                   |



**Material:**  
NAVINIC 10<sup>®</sup> CuNi10Fe1Mn alloy 706  
NAVINIC 30<sup>®</sup> CuNi30Fe1Mn alloy 715  
Dimension: DWG 810-1385880 or similar



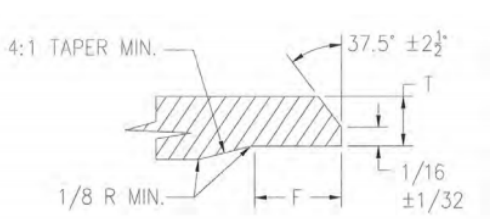
| Class 200         |       |        |                        |
|-------------------|-------|--------|------------------------|
| Nominal Pipe Size | W     | D      | Estimated Weight (lbs) |
| 1/4               | 0.531 | 0.540  | 0.02                   |
| 3/8               | 0.625 | 0.675  | 0.03                   |
| 1/2               | 0.750 | 0.840  | 0.05                   |
| 3/4               | 0.813 | 1.050  | 0.07                   |
| 1                 | 0.875 | 1.315  | 0.09                   |
| 1 1/4             | 1.000 | 1.660  | 0.15                   |
| 1 1/2             | 1.250 | 1.900  | 0.21                   |
| 2                 | 1.313 | 2.375  | 0.31                   |
| 2 1/2             | 1.563 | 2.875  | 0.45                   |
| 3                 | 1.656 | 3.500  | 0.66                   |
| 3 1/2             | 1.750 | 4.000  | 0.80                   |
| 4                 | 1.813 | 4.500  | 1.10                   |
| 5                 | 2.063 | 5.563  | 1.60                   |
| 6                 | 2.219 | 6.625  | 2.30                   |
| 8                 | 2.625 | 8.625  | 4.40                   |
| 10                | 3.000 | 10.750 | 8.40                   |
| 12                | 3.250 | 12.750 | 10.70                  |

## CL700 Butt Weld

|                             |       |
|-----------------------------|-------|
| Weld End Preparation Detail | pg 20 |
| 90° Short Radius Elbows     | pg 21 |
| 90° Long Radius Elbows      | pg 22 |
| 45° Elbows                  | pg 23 |
| Tees                        | pg 24 |
| Tees, Reducing              | pg 25 |
| 180° Return Bends           | pg 27 |
| Caps                        | pg 28 |
| Concentric Reducers         | pg 29 |
| Eccentric Reducers          | pg 30 |

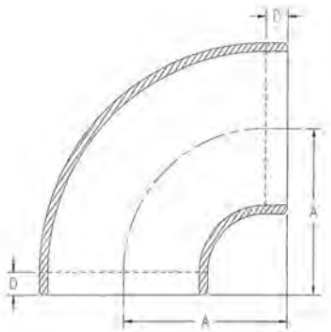


Material:  
NAVINIC 10<sup>®</sup> CuNi10Fe1Mn alloy 706  
NAVINIC 30<sup>®</sup> CuNi30Fe1Mn alloy 715



| Class 700    |           |              |                       |
|--------------|-----------|--------------|-----------------------|
| Nominal inch | Maxium OD | Minimum WT T | Minimum Counterbore F |
| 1/2          | 0.840     | 0.072        | 0.313                 |
| 3/4          | 1.050     | 0.083        | 0.313                 |
| 1            | 1.315     | 0.095        | 0.313                 |
| 1 1/4        | 1.660     | 0.095        | 0.313                 |
| 1 1/2        | 1.900     | 0.109        | 0.313                 |
| 2            | 2.375     | 0.120        | 0.313                 |
| 2 1/2        | 2.875     | 0.134        | 0.313                 |
| 3            | 3.500     | 0.165        | 0.313                 |
| 3 1/2        | 4.000     | 0.180        | 0.500                 |
| 4            | 4.500     | 0.203        | 0.500                 |
| 5            | 5.563     | 0.220        | 0.500                 |
| 6            | 6.625     | 0.259        | 0.500                 |
| 8            | 8.625     | 0.340        | 0.500                 |
| 10           | 10.750    | 0.380        | 0.500                 |
| 12           | 12.750    | 0.454        | 0.500                 |
| 14           | 14.000    | 0.473        | 0.500                 |
| 16           | 16.000    | 0.534        | 0.500                 |

Material:  
NAVINIC 10<sup>®</sup> CuNi10Fe1Mn alloy 706  
NAVINIC 30<sup>®</sup> CuNi30Fe1Mn alloy 715  
Dimension: DWG 810-1385880 or similar

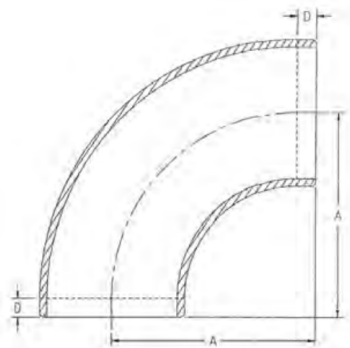


| Class 700         |        |           |                        |
|-------------------|--------|-----------|------------------------|
| Nominal Pipe Size | A      | Tangent D | Estimated Weight (lbs) |
| 1                 | 1.313  | 0.313     | 0.22                   |
| 1 1/4             | 1.563  | 0.313     | 0.32                   |
| 1 1/2             | 1.813  | 0.313     | 0.56                   |
| 2                 | 2.313  | 0.313     | 0.90                   |
| 2 1/2             | 2.813  | 0.313     | 1.73                   |
| 3                 | 3.313  | 0.313     | 2.95                   |
| 3 1/2             | 4.000  | 0.500     | 5.11                   |
| 4                 | 4.500  | 0.500     | 7.26                   |
| 5                 | 5.500  | 0.500     | 12.70                  |
| 6                 | 6.500  | 0.500     | 22.80                  |
| 8                 | 8.500  | 0.500     | 60.90                  |
| 10                | 10.500 | 0.500     | 99.90                  |
| 12                | 12.500 | 0.500     | 128.00                 |
| 14                | 14.500 | 0.500     | 151.30                 |
| 16                | 16.500 | 0.500     | 224.30                 |

90° Long Radius Elbows



Material:  
NAVINIC 10® CuNi10Fe1Mn alloy 706  
NAVINIC 30® CuNi30Fe1Mn alloy 715  
Dimension: DWG 810-1385880 or similar



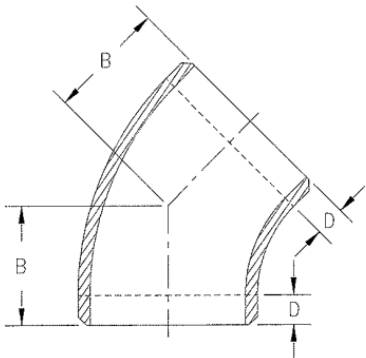
| Class 700         |        |           |                        |
|-------------------|--------|-----------|------------------------|
| Nominal Pipe Size | A      | Tangent D | Estimated Weight (lbs) |
| 1/2               | 1.813  | 0.313     | 0.09                   |
| 3/4               | 1.438  | 0.313     | 0.13                   |
| 1                 | 1.813  | 0.313     | 0.26                   |
| 1 1/4             | 2.188  | 0.313     | 0.40                   |
| 1 1/2             | 2.563  | 0.313     | 0.68                   |
| 2                 | 3.313  | 0.313     | 1.09                   |
| 2 1/2             | 4.063  | 0.313     | 2.09                   |
| 3                 | 4.813  | 0.313     | 3.82                   |
| 3 1/2             | 5.570  | 0.500     | 6.25                   |
| 4                 | 6.500  | 0.500     | 8.94                   |
| 5                 | 8.000  | 0.500     | 15.80                  |
| 6                 | 9.500  | 0.500     | 28.90                  |
| 8                 | 12.500 | 0.500     | 77.20                  |
| 10                | 15.500 | 0.500     | 123.10                 |
| 12                | 18.500 | 0.500     | 174.30                 |
| 14                | 21.500 | 0.500     | 227.10                 |
| 16                | 24.500 | 0.500     | 335.30                 |

45° Elbows

Request Quote

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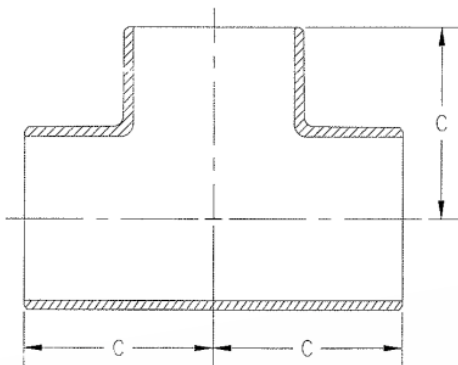
Material:  
NAVINIC 10® CuNi10Fe1Mn alloy 706  
NAVINIC 30® CuNi30Fe1Mn alloy 715  
Dimension: DWG 810-1385880 or similar



| Class 700         |        |           |                        |
|-------------------|--------|-----------|------------------------|
| Nominal Pipe Size | B      | Tangent D | Estimated Weight (lbs) |
| 1/2               | 0.938  | 0.313     | 0.06                   |
| 3/4               | 0.750  | 0.313     | 0.08                   |
| 1                 | 1.188  | 0.313     | 0.16                   |
| 1 1/4             | 1.313  | 0.313     | 0.24                   |
| 1 1/2             | 1.438  | 0.313     | 0.41                   |
| 2                 | 1.688  | 0.313     | 0.69                   |
| 2 1/2             | 2.063  | 0.313     | 1.34                   |
| 3                 | 2.313  | 0.313     | 2.08                   |
| 3 1/2             | 2.750  | 0.500     | 3.79                   |
| 4                 | 3.000  | 0.500     | 5.40                   |
| 5                 | 3.625  | 0.500     | 9.33                   |
| 6                 | 4.250  | 0.500     | 16.60                  |
| 8                 | 5.500  | 0.500     | 44.30                  |
| 10                | 6.750  | 0.500     | 76.20                  |
| 12                | 8.000  | 0.500     | 90.00                  |
| 14                | 9.250  | 0.500     | 113.00                 |
| 16                | 10.500 | 0.500     | 169.00                 |

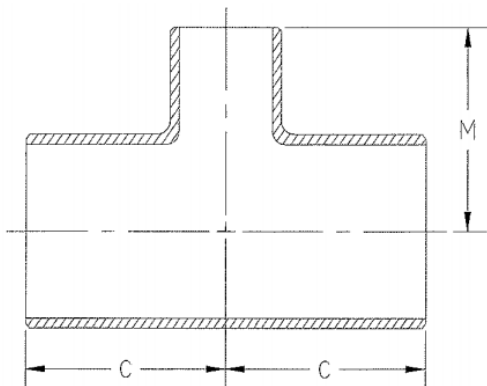


Material:  
NAVINIC 10<sup>®</sup> CuNi10Fe1Mn alloy 706  
NAVINIC 30<sup>®</sup> CuNi30Fe1Mn alloy 715  
Dimension: DWG 810-1385880 or similar



| Class 700         |        |                        |
|-------------------|--------|------------------------|
| Nominal Pipe Size | C      | Estimated Weight (lbs) |
| 3/4               | 1.250  | 0.23                   |
| 1                 | 1.500  | 0.41                   |
| 1 1/4             | 1.875  | 0.59                   |
| 1 1/2             | 2.250  | 0.94                   |
| 2                 | 2.500  | 1.24                   |
| 2 1/2             | 3.000  | 2.26                   |
| 3                 | 3.375  | 3.65                   |
| 3 1/2             | 3.750  | 5.87                   |
| 4                 | 4.125  | 8.19                   |
| 5                 | 4.875  | 13.90                  |
| 6                 | 5.625  | 24.50                  |
| 8                 | 7.000  | 61.30                  |
| 10                | 8.500  | 104.80                 |
| 12                | 10.000 | 163.40                 |
| 14                | 11.000 | 179.30                 |
| 16                | 12.000 | 239.20                 |

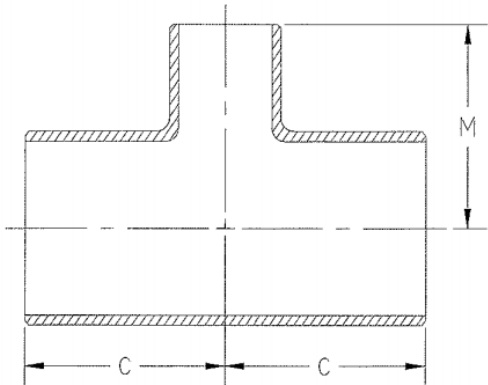
Material:  
NAVINIC 10<sup>®</sup> CuNi10Fe1Mn alloy 706  
NAVINIC 30<sup>®</sup> CuNi30Fe1Mn alloy 715  
Dimension: DWG 810-1385880 or similar



| Class 700         |       |       |                        |
|-------------------|-------|-------|------------------------|
| Nominal Pipe Size | C     | M     | Estimated Weight (lbs) |
| 1 x 1/2           | 1.500 | 1.500 | 0.38                   |
| 1 x 3/4           | 1.500 | 1.500 | 0.39                   |
| 1 1/4 x 1/2       | 1.875 | 1.875 | 0.84                   |
| 1 1/4 x 3/4       | 1.875 | 1.875 | 0.86                   |
| 1 1/4 x 1/2       | 1.875 | 1.875 | 0.87                   |
| 1 1/2 x 1/2       | 2.250 | 2.250 | 1.29                   |
| 1 1/2 x 3/4       | 2.250 | 2.250 | 1.32                   |
| 1 1/2 x 1         | 2.250 | 2.250 | 1.36                   |
| 1 1/2 x 1 1/4     | 2.250 | 2.250 | 1.39                   |
| 2 x 3/4           | 2.500 | 1.750 | 2.02                   |
| 2 x 1             | 2.500 | 2.000 | 2.02                   |
| 2 x 1 1/4         | 2.500 | 2.250 | 2.17                   |
| 2 x 1-1/2         | 2.500 | 2.375 | 2.17                   |
| 2-1/2 x 1         | 3.000 | 2.250 | 1.94                   |
| 2-1/2 x 1-1/4     | 3.000 | 2.500 | 2.09                   |
| 2-1/2 x 1-1/2     | 3.000 | 2.625 | 2.09                   |
| 2-1/2 x 2         | 3.000 | 2.750 | 2.09                   |
| 3 x 1-1/4         | 3.375 | 2.750 | 3.30                   |
| 3 x 1-1/2         | 3.375 | 2.875 | 3.47                   |
| 3 x 2             | 3.375 | 3.000 | 3.47                   |
| 3 x 2-1/2         | 3.375 | 3.250 | 3.47                   |
| 3-1/2 x 1-1/2     | 3.750 | 3.125 | 5.68                   |
| 3-1/2 x 2         | 3.750 | 3.250 | 5.68                   |
| 3-1/2 x 2-1/2     | 3.750 | 3.500 | 5.68                   |
| 3-1/2 x 3         | 3.750 | 3.625 | 5.68                   |
| 4 x 1-1/2         | 4.125 | 3.375 | 7.64                   |
| 4 x 2             | 4.125 | 3.500 | 7.82                   |
| 4 x 2-1/2         | 4.125 | 3.750 | 8.00                   |
| 4 x 3             | 4.125 | 3.875 | 8.00                   |
| 4 x 3-1/2         | 4.125 | 4.000 | 8.00                   |
| 5 x 2             | 4.875 | 4.125 | 13.00                  |
| 5 x 2-1/2         | 4.875 | 4.250 | 13.20                  |
| 5 x 3             | 4.875 | 4.375 | 13.50                  |
| 5 x 3-1/2         | 4.875 | 4.500 | 13.50                  |
| 5 x 4             | 4.875 | 4.625 | 13.70                  |

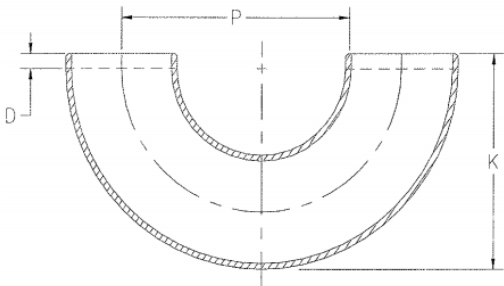


Material:  
NAVINIC 10® CuNi10Fe1Mn alloy 706  
NAVINIC 30® CuNi30Fe1Mn alloy 715  
Dimension: DWG 810-1385880 or similar



| Class 700         |        |        |                        |
|-------------------|--------|--------|------------------------|
| Nominal Pipe Size | C      | M      | Estimated Weight (lbs) |
| 6 x 2-1/2         | 5.625  | 4.750  | 23.30                  |
| 6 x 3             | 5.625  | 4.875  | 23.70                  |
| 6 x 3-1/2         | 5.625  | 5.000  | 23.90                  |
| 6 x 4             | 5.625  | 5.125  | 24.10                  |
| 6 x 5             | 5.625  | 5.375  | 24.10                  |
| 8 x 3-1/2         | 7.000  | 6.000  | 58.60                  |
| 8 x 4             | 7.000  | 6.125  | 59.00                  |
| 8 x 5             | 7.000  | 6.375  | 59.20                  |
| 8 x 6             | 7.000  | 6.625  | 59.20                  |
| 10 x 4            | 8.500  | 7.250  | 98.50                  |
| 10 x 5            | 8.500  | 7.500  | 98.70                  |
| 10 x 6            | 8.500  | 7.625  | 98.90                  |
| 10 x 8            | 8.500  | 8.000  | 101.10                 |
| 12 x 5            | 10.000 | 8.500  | 150.70                 |
| 12 x 6            | 10.000 | 8.625  | 151.10                 |
| 12 x 8            | 10.000 | 9.000  | 154.50                 |
| 12 x 10           | 10.000 | 9.500  | 158.50                 |
| 14 x 6            | 11.000 | 9.375  | 150.70                 |
| 14 x 8            | 11.000 | 9.750  | 154.50                 |
| 14 x 10           | 11.000 | 10.125 | 158.90                 |
| 14 x 12           | 11.000 | 10.625 | 163.20                 |
| 16 x 6            | 12.000 | 10.375 | 213.60                 |
| 16 x 8            | 12.000 | 10.750 | 217.80                 |
| 16 x 10           | 12.000 | 11.125 | 224.20                 |
| 16 x 12           | 12.000 | 11.625 | 228.50                 |
| 16 x 14           | 12.000 | 12.000 | 232.80                 |

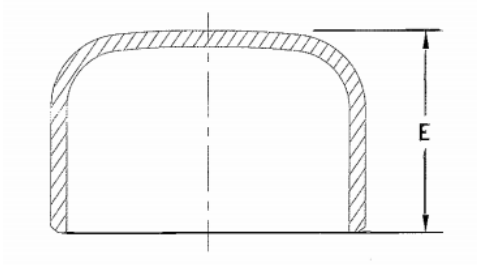
Material:  
NAVINIC 10® CuNi10Fe1Mn alloy 706  
NAVINIC 30® CuNi30Fe1Mn alloy 715  
Dimension: DWG 810-1385880 or similar



| Class 700         |        |        |           |                        |
|-------------------|--------|--------|-----------|------------------------|
| Nominal Pipe Size | P      | K      | Tangent D | Estimated Weight (lbs) |
| 1                 | 3.00   | 2.500  | 0.313     | 0.80                   |
| 1 1/4             | 3.750  | 3.063  | 0.313     | 1.02                   |
| 1 1/2             | 4.500  | 3.563  | 0.313     | 1.43                   |
| 2                 | 6.000  | 4.500  | 0.313     | 2.31                   |
| 2 1/2             | 7.500  | 5.500  | 0.313     | 4.52                   |
| 3                 | 9.000  | 6.563  | 0.313     | 7.98                   |
| 3 1/2             | 10.500 | 7.750  | 0.500     | 13.20                  |
| 4                 | 12.000 | 8.750  | 0.500     | 19.10                  |
| 5                 | 15.000 | 10.813 | 0.500     | 33.40                  |
| 6                 | 18.000 | 12.813 | 0.500     | 60.40                  |
| 8                 | 24.000 | 16.813 | 0.500     | 161.20                 |
| 10                | 30.000 | 20.875 | 0.500     | 247.10                 |
| 12                | 36.000 | 24.875 | 0.500     | 348.60                 |
| 14                | 42.000 | 28.500 | 0.500     | 454.00                 |
| 16                | 48.000 | 32.500 | 0.500     | 670.00                 |

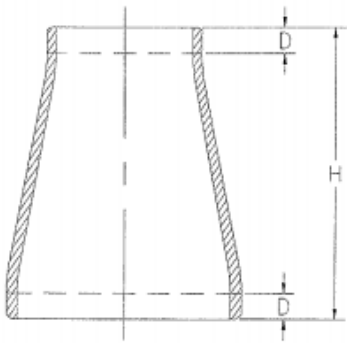


Material:  
NAVINIC 10<sup>®</sup> CuNi10Fe1Mn alloy 706  
NAVINIC 30<sup>®</sup> CuNi30Fe1Mn alloy 715  
Dimension: DWG 810-1385880 or similar



| Class 700         |       |                        |
|-------------------|-------|------------------------|
| Nominal Pipe Size | E     | Estimated Weight (lbs) |
| 1                 | 1.500 | 0.26                   |
| 1 1/4             | 1.500 | 0.36                   |
| 1 1/2             | 1.500 | 0.40                   |
| 2                 | 1.500 | 0.56                   |
| 2 1/2             | 1.500 | 0.71                   |
| 3                 | 2.000 | 1.30                   |
| 3 1/2             | 2.500 | 1.89                   |
| 4                 | 2.500 | 2.00                   |
| 5                 | 3.000 | 3.69                   |
| 6                 | 3.500 | 5.79                   |
| 8                 | 4.000 | 10.50                  |
| 10                | 5.000 | 17.60                  |
| 12                | 6.000 | 29.40                  |
| 14                | 6.500 | 37.80                  |
| 16                | 7.000 | 59.80                  |

Material:  
NAVINIC 10<sup>®</sup> CuNi10Fe1Mn alloy 706  
NAVINIC 30<sup>®</sup> CuNi30Fe1Mn alloy 715  
Dimension: DWG 810-1385880 or similar



| Class 700         |       |                        |
|-------------------|-------|------------------------|
| Nominal Pipe Size | H     | Estimated Weight (lbs) |
| 1 x 1/2           | 2.000 | 0.38                   |
| 1 x 3/4           | 2.000 | 0.38                   |
| 1-1/4 x 1/2       | 2.000 | 0.41                   |
| 1-1/4 x 3/4       | 2.000 | 0.41                   |
| 1-1/4 x 1         | 2.000 | 0.41                   |
| 1-1/2 x 1/2       | 2.500 | 0.47                   |
| 1-1/2 x 3/4       | 2.500 | 0.47                   |
| 1-1/2 x 1         | 2.500 | 0.47                   |
| 1-1/2 x 1-1/4     | 2.500 | 0.47                   |
| 2 x 3/4           | 3.000 | 0.60                   |
| 2 x 1             | 3.000 | 0.60                   |
| 2 x 1-1/4         | 3.000 | 0.60                   |
| 2 x 1-1/2         | 3.000 | 0.60                   |
| 2-1/2 x 1         | 3.500 | 1.01                   |
| 2-1/2 x 1-1/4     | 3.500 | 1.01                   |
| 2-1/2 x 1-1/2     | 3.500 | 1.01                   |
| 2-1/2 x 2         | 3.500 | 1.01                   |
| 3 x 1-1/4         | 3.500 | 1.52                   |
| 3 x 1-1/2         | 3.500 | 1.52                   |
| 3 x 2             | 3.500 | 1.52                   |
| 3 x 2-1/2         | 3.500 | 1.52                   |
| 3-1/2 x 1-1/4     | 4.000 | 2.65                   |
| 3-1/2 x 1-1/2     | 4.000 | 2.65                   |
| 3-1/2 x 2         | 4.000 | 2.65                   |
| 3-1/2 x 2-1/2     | 4.000 | 2.65                   |
| 3-1/2 x 3         | 4.000 | 2.65                   |
| 4 x 1-1/2         | 4.000 | 3.16                   |
| 4 x 2             | 4.000 | 3.16                   |
| 4 x 2-1/2         | 4.000 | 3.16                   |
| 4 x 3             | 4.000 | 3.16                   |
| 4 x 3-1/2         | 4.000 | 3.16                   |
| 5 x 2             | 5.000 | 5.45                   |
| 5 x 2-1/2         | 5.000 | 5.45                   |
| 5 x 3             | 5.000 | 5.45                   |
| 5 x 3-1/2         | 5.000 | 5.45                   |
| 5 x 4             | 5.000 | 5.45                   |

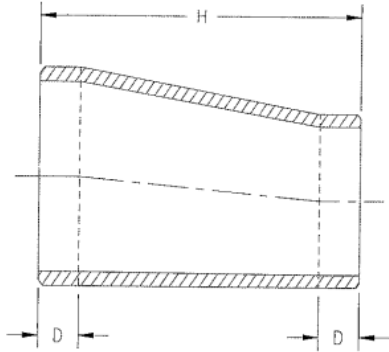
| Class 700         |        |                        |
|-------------------|--------|------------------------|
| Nominal Pipe Size | C      | Estimated Weight (lbs) |
| 6 x 2-1/2         | 5.500  | 8.31                   |
| 6 x 3             | 5.500  | 8.31                   |
| 6 x 3-1/2         | 5.500  | 8.69                   |
| 6 x 4             | 5.500  | 9.66                   |
| 6 x 5             | 5.500  | 9.66                   |
| 8 x 3-1/2         | 6.000  | 21.50                  |
| 8 x 4             | 6.000  | 21.50                  |
| 8 x 5             | 6.000  | 21.50                  |
| 8 x 6             | 6.000  | 21.50                  |
| 10 x 4            | 7.000  | 36.50                  |
| 10 x 5            | 7.000  | 36.50                  |
| 10 x 6            | 7.000  | 36.50                  |
| 10 x 8            | 7.000  | 36.50                  |
| 12 x 5            | 8.000  | 39.95                  |
| 12 x 6            | 8.000  | 40.80                  |
| 12 x 8            | 8.000  | 43.50                  |
| 12 x 10           | 8.000  | 50.10                  |
| 14 x 6            | 13.000 | 69.50                  |
| 14 x 8            | 13.000 | 74.20                  |
| 14 x 10           | 13.000 | 78.40                  |
| 14 x 12           | 13.000 | 94.60                  |
| 16 x 8            | 14.000 | 93.90                  |
| 16 x 10           | 14.000 | 101.00                 |
| 16 x 12           | 14.000 | 108.90                 |
| 16 x 14           | 14.000 | 114.00                 |

## Material:

**NAVINIC 10®** CuNi10Fe1Mn alloy 706

**NAVINIC 30®** CuNi30Fe1Mn alloy 715

Dimension: DWG 810-1385880 or similar



| Class 700         |       |                        |
|-------------------|-------|------------------------|
| Nominal Pipe Size | H     | Estimated Weight (lbs) |
| 1 x 1/2           | 2.000 | 0.38                   |
| 1 x 3/4           | 2.000 | 0.38                   |
| 1-1/4 x 1/2       | 2.000 | 0.41                   |
| 1-1/4 x 3/4       | 2.000 | 0.41                   |
| 1-1/4 x 1         | 2.000 | 0.41                   |
| 1-1/2 x 1/2       | 2.500 | 0.47                   |
| 1-1/2 x 3/4       | 2.500 | 0.47                   |
| 1-1/2 x 1         | 2.500 | 0.47                   |
| 1-1/2 x 1-1/4     | 2.500 | 0.47                   |
| 2 x 3/4           | 3.000 | 0.60                   |
| 2 x 1             | 3.000 | 0.60                   |
| 2 x 1-1/4         | 3.000 | 0.60                   |
| 2 x 1-1/2         | 3.000 | 0.60                   |
| 2-1/2 x 1         | 3.500 | 1.01                   |
| 2-1/2 x 1-1/4     | 3.500 | 1.01                   |
| 2-1/2 x 1-1/2     | 3.500 | 1.01                   |
| 2-1/2 x 2         | 3.500 | 1.01                   |
| 3 x 1-1/4         | 3.500 | 1.52                   |
| 3 x 1-1/2         | 3.500 | 1.52                   |
| 3 x 2             | 3.500 | 1.52                   |
| 3 x 2-1/2         | 3.500 | 1.52                   |
| 3-1/2 x 1-1/4     | 4.000 | 2.65                   |
| 3-1/2 x 1-1/2     | 4.000 | 2.65                   |
| 3-1/2 x 2         | 4.000 | 2.65                   |
| 3-1/2 x 2-1/2     | 4.000 | 2.65                   |
| 3-1/2 x 3         | 4.000 | 2.65                   |
| 4 x 1-1/2         | 4.000 | 3.16                   |
| 4 x 2             | 4.000 | 3.16                   |
| 4 x 2-1/2         | 4.000 | 3.16                   |
| 4 x 3             | 4.000 | 3.16                   |
| 4 x 3-1/2         | 4.000 | 3.16                   |
| 5 x 2             | 5.000 | 5.45                   |
| 5 x 2-1/2         | 5.000 | 5.45                   |
| 5 x 3             | 5.000 | 5.45                   |
| 5 x 3-1/2         | 5.000 | 5.45                   |
| 5 x 4             | 5.000 | 5.45                   |

| Class 700         |        |                        |
|-------------------|--------|------------------------|
| Nominal Pipe Size | C      | Estimated Weight (lbs) |
| 6 x 2-1/2         | 5.500  | 8.31                   |
| 6 x 3             | 5.500  | 8.31                   |
| 6 x 3-1/2         | 5.500  | 8.69                   |
| 6 x 4             | 5.500  | 9.66                   |
| 6 x 5             | 5.500  | 9.66                   |
| 8 x 3-1/2         | 6.000  | 21.50                  |
| 8 x 4             | 6.000  | 21.50                  |
| 8 x 5             | 6.000  | 21.50                  |
| 8 x 6             | 6.000  | 21.50                  |
| 10 x 4            | 7.000  | 36.50                  |
| 10 x 5            | 7.000  | 36.50                  |
| 10 x 6            | 7.000  | 36.50                  |
| 10 x 8            | 7.000  | 36.50                  |
| 12 x 5            | 8.000  | 39.95                  |
| 12 x 6            | 8.000  | 40.80                  |
| 12 x 8            | 8.000  | 43.50                  |
| 12 x 10           | 8.000  | 50.10                  |
| 14 x 6            | 13.000 | 69.50                  |
| 14 x 8            | 13.000 | 74.20                  |
| 14 x 10           | 13.000 | 78.40                  |
| 14 x 12           | 13.000 | 94.60                  |
| 16 x 8            | 14.000 | 93.90                  |
| 16 x 10           | 14.000 | 101.00                 |
| 16 x 12           | 14.000 | 108.90                 |
| 16 x 14           | 14.000 | 114.00                 |