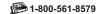


Vancouver ~ Toronto ~ Montreal ~ Cincinnati

www.bmicanada.com







# **TECHNICAL INFORMATION**













# #150 **BLACK & GALVANIZED MALLEABLE IRON PIPE FITTINGS**















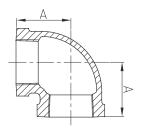
Materials: ASTM A197 / A197M Dimensions: Fittings ASME B16.3,

Fittings ASME B16.3, B16.14 Unions B16.39

Threads: ASME B1.20.1, ISO 7-1

### 90° Elbows

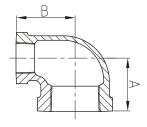




| Size         | Inch | 1/8  | 1/4  | 3/8  | 1/2  | 3/4  | 1    | 11/4 | 11/2 |
|--------------|------|------|------|------|------|------|------|------|------|
| Size         | mm   | 6    | 8    | 10   | 15   | 20   | 25   | 32   | 40   |
| Dim.<br>(mm) | А    | 17.5 | 20.6 | 24.1 | 28.5 | 33.3 | 38.1 | 44.5 | 49.3 |
| Size         | Inch | 2    | 21/2 | 3    | 4    | 5    | 6    | 8    |      |
| Size         | mm   | 50   | 65   | 80   | 100  | 125  | 150  | 200  |      |
|              |      |      |      |      |      |      |      |      |      |

# 90° Reducing Elbows

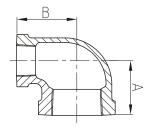




| Size | Inch | 4X11/4  | 4X11/2  | 4X2     | 4X21/2  | 4X3     | 3/8X1/8 |
|------|------|---------|---------|---------|---------|---------|---------|
| Size | mm   | 100X32  | 100X40  | 100X50  | 100X65  | 100X80  | 10X6    |
| Dim. | Α    | 60      | 62      | 69      | 78      | 83.8    | 20.5    |
| (mm) | В    | 85      | 85      | 87      | 90      | 91.4    | 21.6    |
| Size | Inch | 3/8X1/4 | 6X4     | 1/2X1/4 | 1/2X3/8 | 3/4X1/4 | 3/4X3/8 |
| Size | mm   | 10X8    | 150X100 | 15X8    | 15X10   | 20X8    | 20X10   |
| Dim. | А    | 22.4    | 102     | 24.6    | 26.4    | 26.7    | 28.5    |
| (mm) | В    | 22.9    | 125     | 24.9    | 26.2    | 27.4    | 28.7    |

# 90° Reducing Elbows

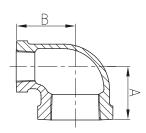




| Size | Inch | 3/4X1/2  | 1X1/4    | 1X3/8    | 1X1/2  | 1X3/4    |
|------|------|----------|----------|----------|--------|----------|
| Size | mm   | 20X15    | 25X8     | 25X10    | 25X15  | 25X20    |
| Dim. | А    | 30.5     | 27       | 30       | 32     | 34.8     |
| (mm) | В    | 31       | 31       | 32.3     | 35.5   | 36.8     |
| Size | Inch | 11/4X3/8 | 11/4X1/2 | 11/4X3/4 | 11/4X1 | 11/2X1/2 |
| Size | mm   | 32X10    | 32X15    | 32X20    | 32X25  | 40X15    |
| Dim. | А    | 32       | 34       | 36.8     | 40.1   | 35       |
| (mm) | В    | 36.5     | 38.9     | 41.2     | 42.4   | 41.5     |

# 90° Reducing Elbows





| Size | Inch | 11/2X3/4 | 11/2X1 | 11/2X11/4 | 2X1/2    | 2X3/4  |
|------|------|----------|--------|-----------|----------|--------|
| Size | mm   | 40X20    | 40X25  | 40X32     | 50X15    | 50X20  |
| Dim. | А    | 38.6     | 41.9   | 46.2      | 37.5     | 40.6   |
| (mm) | В    | 44.5     | 45.7   | 47.8      | 47.5     | 50.0   |
| Size | Inch | 2X1      | 2X11/4 | 2X11/2    | 21/2X3/4 | 21/2X1 |
| Size | mm   | 50X25    | 50X32  | 50X40     | 65X20    | 65X25  |
| Dim. | А    | 43.9     | 48.3   | 51.3      | 42       | 46     |
| (mm) | В    | 51.3     | 53.3   | 54.9      | 57       | 58.7   |







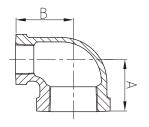




Fittings ASME B16.3, B16.14 Unions B16.39 ASME B1.20.1, ISO 7-1 Threads:

# 90° Reducing Elbows

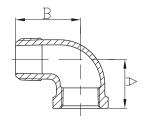




| Size | Inch | 21/2X11/4 | 21/2X11/2 | 21/2X2 | 3X3/4  | 3X1     |
|------|------|-----------|-----------|--------|--------|---------|
| Size | mm   | 65X32     | 65X40     | 65X50  | 80X20  | 80X25   |
| Dim. | А    | 50.5      | 54.9      | 60.7   | 45     | 50      |
| (mm) | В    | 60        | 63.8      | 66.0   | 65     | 67.5    |
| Size | Inch | 3X11/4    | 3X11/2    | 3X2    | 3X21/2 | 1/4X1/8 |
| Size | mm   | 80X32     | 80X40     | 80X50  | 80X65  | 8X6     |
| Dim. | Α    | 55        | 58        | 64     | 71.9   | 18.8    |
| (mm) | В    | 70        | 72        | 73.4   | 75.9   | 19.3    |

90° Street Elbows

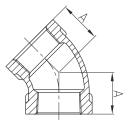




| Size | Inch | 1/8  | 1/4  | 3/8  | 1/2   | 3/4   | 1     | 11/4 |
|------|------|------|------|------|-------|-------|-------|------|
| Size | mm   | 6    | 8    | 10   | 15    | 20    | 25    | 32   |
| Dim. | Α    | 17.5 | 20.6 | 24.1 | 28.5  | 33.3  | 38.1  | 44.5 |
| (mm) | В    | 25.4 | 30.2 | 36.6 | 41.2  | 48.0  | 54.4  | 62.2 |
| Size | Inch | 11/2 | 2    | 21/2 | 3     | 4     | 6     |      |
| Size | mm   | 40   | 50   | 65   | 80    | 100   | 150   |      |
| Dim. | Α    | 49.3 | 57.2 | 68.6 | 78.2  | 96.3  | 130.3 |      |
| (mm) | В    | 68.3 | 82.8 | 98.0 | 114.6 | 144.5 | 204.0 |      |

45° Elbows

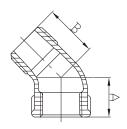




| Size         | Inch | 1/8  | 1/4  | 3/8  | 1/2  | 3/4  | 1    | 11/4  | 11/2 |
|--------------|------|------|------|------|------|------|------|-------|------|
| Size         | mm   | 6    | 8    | 10   | 15   | 20   | 25   | 32    | 40   |
| Dim.<br>(mm) | А    | 16   | 18.5 | 20.3 | 22.4 | 24.9 | 28.5 | 32.8  | 36.3 |
| Size         | Inch | 2    | 21/2 | 3    | 4    | 5    | 6    | 8     |      |
| Size         | mm   | 50   | 65   | 80   | 100  | 125  | 150  | 200   |      |
| Dim.<br>(mm) | А    | 42.7 | 49.5 | 55.1 | 66.3 | 77.5 | 87.9 | 106.7 |      |

45° Street Elbows





| Size | Inch | 1/8  | 1/4  | 3/8  | 1/2  | 3/4  | 1    |
|------|------|------|------|------|------|------|------|
| Size | mm   | 6    | 8    | 10   | 15   | 20   | 25   |
| Dim. | Α    | 16   | 18.5 | 20.3 | 22.4 | 24.9 | 28.5 |
| (mm) | В    | 21   | 23.9 | 26.2 | 29.2 | 32.8 | 37.3 |
| Size | Inch | 11/4 | 11/2 | 2    | 21/2 | 3    | 4    |
| Size | mm   | 32   | 40   | 50   | 65   | 80   | 100  |
| Dim. | А    | 32.8 | 36.3 | 42.7 | 49.5 | 55.1 | 66.3 |
| (mm) | В    | 43.4 | 47.8 | 56.4 | 65.3 | 76.2 | 94.0 |









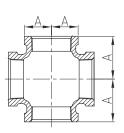




Threads: ASME B1.20.1, ISO 7-1

#### Crosses



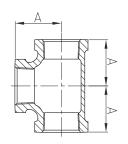


| Size         | Inch | 1/8  | 1/4  | 3/8  | 1/2  | 3/4  | 1    |
|--------------|------|------|------|------|------|------|------|
| Size         | mm   | 6    | 8    | 10   | 15   | 20   | 25   |
| Dim.<br>(mm) | А    | 17.5 | 20.6 | 24.1 | 28.5 | 33.3 | 38.1 |
| Size         | Inch | 11/4 | 11/2 | 2    | 21/2 | 3    | 4    |
| Size         | mm   | 32   | 40   | 50   | 65   | 80   | 100  |
| Dim.<br>(mm) | А    | 44.5 | 49.3 | 57.2 | 68.6 | 78.2 | 96.3 |

Tees





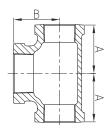


| Size         | Inch | 1/8  | 1/4  | 3/8  | 1/2  | 3/4   | 1     | 11/4 | 11/2 |
|--------------|------|------|------|------|------|-------|-------|------|------|
| Size         | mm   | 6    | 8    | 10   | 15   | 20    | 25    | 32   | 40   |
| Dim.<br>(mm) | А    | 17.5 | 20.6 | 24.1 | 28.5 | 33.3  | 38.1  | 44.5 | 49.3 |
| Size         | Inch | 2    | 21/2 | 3    | 4    | 5     | 6     | 8    |      |
| Size         | mm   | 50   | 65   | 80   | 100  | 125   | 150   | 200  |      |
| Dim.<br>(mm) | А    | 57.2 | 68.6 | 78.2 | 96.3 | 114.3 | 130.3 | 162  |      |

### **Bull Head Reducing Tees**





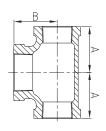


| Size | Inch | 1/2X1/2X3/4 | 1/2X1/2X1 | 3/4X3/4X1 | 3/4X3/4X11/4 |
|------|------|-------------|-----------|-----------|--------------|
| Size | mm   | 15X15X20    | 15X15X25  | 20X20X25  | 20X20X32     |
| Dim. | А    | 31          | 34.6      | 36.8      | 41.2         |
| (mm) | В    | 30.5        | 32.0      | 34.8      | 36.8         |
| Size | Inch | 1X1X11/4    | 1X1X11/2  | 1X1X2     | 1X1X21/2     |
| Size | mm   | 25X25X32    | 25X25X40  | 25X25X50  | 25X25X65     |
| Dim. | А    | 42.4        | 45.7      | 51.3      | 60           |
| (mm) | В    | 40.1        | 41.9      | 48.9      | 48           |

# **Bull Head Reducing Tees**







| Size | Inch | 11/4X11/4X11/2 | 11/4X11/4X2 | 11/2X11/2X2 | 11/2X11/2X21/2 |
|------|------|----------------|-------------|-------------|----------------|
| Size | mm   | 32X32X40       | 32X32X50    | 40X40X50    | 40X40X65       |
| Dim. | А    | 47.8           | 53.3        | 54.9        | 62             |
| (mm) | В    | 46.2           | 48.3        | 51.3        | 55             |
| Size | Inch | 2X2X21/2       | 21/2X21/2X3 | 21/2X21/2X4 |                |
| Size | mm   | 50X50X65       | 65X65X80    | 65X65X100   |                |
| Dim. | А    | 66             | 76          | 90          |                |
| (mm) | В    | 60.7           | 71.9        | 78          |                |









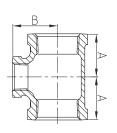




Threads: ASME B1.20.1, ISO 7-1

### Reducing Tees



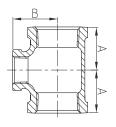


| Size | Inch | 4X1/2  | 4X3/4  | 4X1     | 4X11/4  | 4X11/2 | 4X2    |
|------|------|--------|--------|---------|---------|--------|--------|
| Size | mm   | 100X15 | 100X20 | 100X25  | 100X32  | 100X40 | 100X50 |
| Dim. | А    | 50     | 53     | 56      | 60      | 63.8   | 69.6   |
| (mm) | В    | 79     | 79     | 82      | 84      | 84.3   | 86.6   |
| Size | Inch | 4X21/2 | 4X3    | 3/8X1/4 | 6X4     | 6X2    | 6X3    |
| Size | mm   | 100X65 | 100X80 | 10X8    | 150X100 | 150X50 | 150X80 |
| Dim. | Α    | 77.5   | 83.8   | 22.4    | 104.9   | 78.2   | 92.5   |
| (mm) | В    | 89.2   | 91.4   | 22.9    | 125.5   | 115.8  | 120.7  |

### **Reducing Tees**





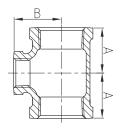


| Size | Inch | 1/2X1/8 | 1/2X1/4 | 1/2X3/8 | 3/4X1/4 | 3/4X3/8 |
|------|------|---------|---------|---------|---------|---------|
| Size | mm   | 15X6    | 15X8    | 15X10   | 20X8    | 20X10   |
| Dim. | А    | 22      | 24.6    | 26.4    | 26.7    | 28.5    |
| (mm) | В    | 23      | 24.9    | 26.2    | 27.4    | 28.7    |
| Size | Inch | 3/4X1/2 | 1X1/4   | 1X3/8   | 1X1/2   | 1X3/4   |
| Size | mm   | 20X15   | 25X8    | 25X10   | 25X15   | 25X20   |
| Dim. | А    | 30.5    | 28.2    | 30      | 32      | 34.8    |
| (mm) | В    | 31      | 31      | 32.3    | 35.5    | 36.8    |

### **Reducing Tees**





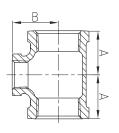


| Size | Inch | 11/4X3/8 | 11/4X1/2 | 11/4X3/4 | 11/4X1    | 11/2X3/8 |
|------|------|----------|----------|----------|-----------|----------|
| Size | mm   | 32X10    | 32X15    | 32X20    | 32X25     | 40X10    |
| Dim. | А    | 32       | 34       | 36.8     | 40.1      | 34       |
| (mm) | В    | 36.6     | 38.9     | 41.2     | 42.4      | 39       |
| Size | Inch | 11/2X1/2 | 11/2X3/4 | 11/2X1   | 11/2X11/4 | 2X3/8    |
| Size | mm   | 40X15    | 40X20    | 40X25    | 40X32     | 50X10    |
| Dim. | А    | 35.8     | 38.6     | 41.9     | 46.2      | 36       |
| (mm) | В    | 42.2     | 44.5     | 45.7     | 47.8      | 46       |

# Reducing Tees







| Size | Inch | 2X1/2    | 2X3/4    | 2X1    | 2X11/4    | 2X11/2    |
|------|------|----------|----------|--------|-----------|-----------|
| Size | mm   | 50X15    | 50X20    | 50X25  | 50X32     | 50X40     |
| Dim. | А    | 37.9     | 40.6     | 43.9   | 48.3      | 51.3      |
| (mm) | В    | 47.8     | 50       | 51.3   | 53.3      | 54.9      |
| Size | Inch | 21/2X1/2 | 21/2X3/4 | 21/2X1 | 21/2X11/4 | 21/2X11/2 |
| Size | mm   | 65X15    | 65X20    | 65X25  | 65X32     | 65X40     |
| Dim. | А    | 41       | 44.2     | 47.5   | 51.8      | 54.9      |
| (mm) | В    | 57       | 58.9     | 60.2   | 62.2      | 63.8      |









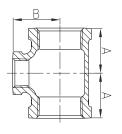




Threads: ASME B1.20.1, ISO 7-1

### Reducing Tees

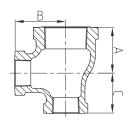




| C:   | Inch | 21/2X2 | 3X1/2 | 3X3/4  | 3X1     | 3X11/4 |
|------|------|--------|-------|--------|---------|--------|
| Size | mm   | 65X50  | 80X15 | 80X20  | 80X25   | 80X32  |
| Dim. | А    | 60.7   | 42    | 47.5   | 50.8    | 55.1   |
| (mm) | В    | 66.0   | 64    | 66.3   | 67.6    | 69.6   |
| Size | Inch | 3X11/2 | 3X2   | 3X21/2 | 1/4X1/8 |        |
| Size | mm   | 80X40  | 80X50 | 80X65  | 8X6     |        |
| Dim. | А    | 58.2   | 64.0  | 71.9   | 18.8    |        |
| (mm) | В    | 71.1   | 73.4  | 76     | 19.3    |        |

# Reducing Tees

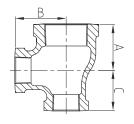




| Size         | Inch | 3/4X1/2X1/2  | 1X1/2X1/2 | 1X3/4X3/4    | 11/4X1/2X1/2 |
|--------------|------|--------------|-----------|--------------|--------------|
| OI2C         | mm   | 20X15X15     | 25X15X15  | 25X20X20     | 32X15X15     |
| Dim.         | Α    | 30.5         | 32        | 34.8         | 34           |
| (mm)         | В    | 31           | 35.5      | 36.8         | 38           |
| (11111)      | С    | 28.5         | 28.5      | 33.3         | 27           |
| Size         | Inch | 11/4X3/4X3/4 | 11/4X1X1  | 11/2X3/4X3/4 | 11/2X1X1     |
| Size         | mm   | 32X20X20     | 32X25X25  | 40X20X20     | 40X25X25     |
| Dies         | Α    | 36.8         | 40.1      | 38           | 41.9         |
| Dim.<br>(mm) | В    | 41.2         | 42.4      | 43           | 45.7         |
| (11111)      | С    | 33.3         | 38.1      | 32           | 38.1         |

### **Reducing Tees**



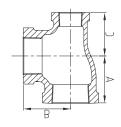


| Size         | Inch | 11/2X11/4X11/4 | 2X1X1    | 2X11/4X11/4 | 2X11/2X11/2 |
|--------------|------|----------------|----------|-------------|-------------|
| Size         | mm   | 40X32X32       | 50X25X25 | 50X32X32    | 50X40X40    |
| Dim          | Α    | 46.2           | 44       | 48.3        | 51.3        |
| Dim.<br>(mm) | В    | 47.8           | 51       | 53.3        | 54.9        |
| (''''')      | С    | 44.5           | 38       | 44.5        | 49.3        |
| Size         | Inch | 21/2X2X2       | 3X2X2    |             |             |
| Size         | mm   | 65X50X50       | 80X50X50 |             |             |
| Div          | Α    | 60.7           | 64       |             |             |
| Dim.<br>(mm) | В    | 66             | 73.4     |             |             |
| (11111)      | С    | 57.2           | 57.2     |             |             |

# Reducing Tees







| Size                                    | Inch | 3/4X1/2X3/4   | 1X1/4X1     | 1X1/2X1       | 1X3/4X1       | 11/4X1/2X11/4 |
|---|------|---------------|-------------|---------------|---------------|---------------|
| Size                                    | mm   | 20X15X20      | 25X8X25     | 25X15X25      | 25X20X25      | 32X15X32      |
| Div                                     | Α    | 33.3          | 37          | 38.1          | 38.1          | 44.5          |
| Dim.<br>(mm)                            | В    | 33.3          | 37          | 38.1          | 38.1          | 44.5          |
| (''''')                                 | С    | 31            | 30          | 35.5          | 36.8          | 38.9          |
| Size                                    | Inch | 11/4X3/4X11/4 | 11/4X1X11/4 | 11/2X1/2X11/2 | 11/2X3/4X11/2 | 11/2X1X11/2   |
| Size                                    | mm   | 32X20X32      | 32X25X32    | 40X15X40      | 40X20X40      | 40X25X40      |
| Direc                                   | Α    | 44.5          | 44.5        | 49.3          | 49.3          | 49.3          |
| Dim.<br>(mm)                            | В    | 44.5          | 44.5        | 49.3          | 49.3          | 49.3          |
| (,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | С    | 41.2          | 42.4        | 42.2          | 44.5          | 45.7          |







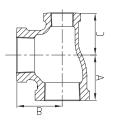




Threads: ASME B1.20.1, ISO 7-1

### Reducing Tees



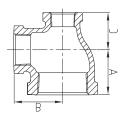


| Inch | 11/2X11/4X11/2       | 2X1/2X2  | 2X3/4X2  | 2X1X2  |
|------|----------------------|--|--|--|
| mm   | 40X32X40             | 50X15X50   | 50X20X50   | 50X25X50   |
| Α    | 49.3                 | 57.2   | 57.2   | 57.2   |
| В    | 49.3                 | 57.2   | 57.2   | 57.2   |
| С    | 47.8                 | 47.8   | 50   | 51.3   |
| Inch | 2X11/4X2             | 2X11/2X2   | 21/2X11/2X21/2   | 21/2X2X21/2  |
| mm   | 50X32X50             | 50X40X50   | 65X40X65   | 65X50X65   |
| Α    | 57.2                 | 57.2   | 68.6   | 68.6   |
| В    | 57.2                 | 57.2   | 68.6   | 68.6   |
| С    | 53.3                 | 54.8   | 63.8   | 66   |
|      | mm A B C Inch mm A B | mm 40X32X40 A 49.3 B 49.3 C 47.8 Inch 2X11/4X2 mm 50X32X50 A 57.2 B 57.2 | mm         40X32X40         50X15X50           A         49.3         57.2           B         49.3         57.2           C         47.8         47.8           Inch         2X11/4X2         2X11/2X2           mm         50X32X50         50X40X50           A         57.2         57.2           B         57.2         57.2 | mm         40X32X40         50X15X50         50X20X50           A         49.3         57.2         57.2           B         49.3         57.2         57.2           C         47.8         47.8         50           Inch         2X11/4X2         2X11/2X2         21/2X11/2X21/2           mm         50X32X50         50X40X50         65X40X65           A         57.2         57.2         68.6           B         57.2         57.2         68.6 |

### **Reducing Tees**



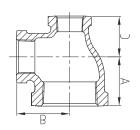




| Size                                    | Inch | 4X3X2        | 3/4X1/2X1  | 1X1/2X3/4  | 11/4X1/2X3/4 | 11/4X1/2X11/4 |
|---|------|--------------|------------|------------|--------------|---------------|
| Size                                    | mm   | 100X80X50    | 20X15X25   | 25X15X20   | 32X15X20     | 32X15X25      |
| Dim                                     | Α    | 67           | 38         | 34.8       | 35           | 40.1          |
| Dim.<br>(mm)                            | В    | 83.5         | 34         | 36.8       | 38           | 42.4          |
|   | С    | 60           | 33         | 31         | 29           | 34.5          |
| Size                                    | Inch | 11/4X3/4X1/2 | 11/4X3/4X1 | 11/4X1X1/2 | 11/4X1X3/4   | 11/2X1/2X1    |
| Size                                    | mm   | 32X20X15     | 32X20X25   | 32X25X15   | 32X25X20     | 40X15X25      |
| Dim.                                    | Α    | 40           | 40.1       | 34.0       | 36.8         | 44            |
| (mm)                                    | В    | 42.5         | 42.4       | 38.9       | 41.2         | 46            |
| (,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | С    | 37           | 36.8       | 32         | 34.8         | 34            |

### **Reducing Tees**

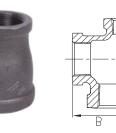




| X1/2 |
|------|
| (15  |
|      |
|      |
|      |
| X1   |
| (25  |
|      |
|      |
|      |
|      |

# Reducing Tees





|                | Inch | 2X11/4X11/2 | 2X11/2X1/2 | 2X11/2X3/4  | 2X11/2X1 | 2X11/2X11/4 |
|----------------|------|-------------|------------|-------------|----------|-------------|
| Size           | mm   | 50X32X40    | 50X40X15   | 50X40X20    | 50X40X25 | 50X40X32    |
| D'             | Α    | 51.3        | 38         | 39.5        | 43.9     | 48.3        |
| Dim.<br>(mm)   | В    | 54.9        | 48         | 49          | 51.3     | 53.3        |
| (11111)        | С    | 47.8        | 36         | 37.5        | 41.9     | 46.2        |
| Size           | Inch | 21/2X2X1/2  | 21/2X2X1   | 21/2X2X11/4 | 3X21/2X2 |             |
| Size           | mm   | 65X50X15    | 65X50X25   | 65X50X32    | 80X65X50 |             |
| Dim.           | Α    | 57          | 53         | 57          | 64.0     |             |
| טודים.<br>(mm) | В    | 64          | 60         | 64          | 73.4     |             |
| (11111)        | С    | 52          | 53         | 52          | 60.7     |             |













Materials: ASTM A197 / A197M Dimensions:

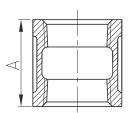
Threads:

Fittings ASME B16.3, B16.14 Unions B16.39 ASME B1.20.1, ISO 7-1

# Couplings





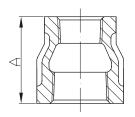


| Size         | Inch | 1/8  | 1/4  | 3/8  | 1/2  | 3/4  | 1    | 11/4 |
|--------------|------|------|------|------|------|------|------|------|
| Size         | mm   | 6    | 8    | 10   | 15   | 20   | 25   | 32   |
| Dim.<br>(mm) | А    | 24.2 | 26.9 | 29.5 | 34.0 | 38.6 | 42.4 | 49   |
| Size         | Inch | 11/2 | 2    | 21/2 | 3    | 4    | 5    | 6    |
| Size         | mm   | 40   | 50   | 65   | 80   | 100  | 125  | 150  |
| Dim.<br>(mm) | А    | 54.6 | 64.3 | 73.2 | 80.8 | 93.7 | 95   | 105  |

### **Reducing Couplings**





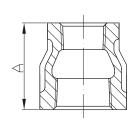


| Size         | Inch | 4X1    | 4X11/4  | 4X11/2  | 4X2     | 4X21/2  |
|--------------|------|--------|---------|---------|---------|---------|
| Size         | mm   | 100X25 | 100X32  | 100X40  | 100X50  | 100X65  |
| Dim.<br>(mm) | А    | 111.3  | 111.3   | 111.3   | 111.3   | 111.3   |
| Size         | Inch | 4X3    | 3/8X1/8 | 3/8X1/4 | 5X4     | 6X4     |
| Size         | mm   | 100X80 | 10X6    | 10X8    | 125X100 | 150X100 |
| Dim.<br>(mm) | А    | 111.3  | 28.7    | 28.7    | 122     | 105     |

# Reducing Couplings







|              | Inch | 6X2     | 6X3     | 1/2X1/8 | 1/2X1/4 | 1/2X3/8 | 3/4X1/8 |
|--------------|------|---------|---------|---------|---------|---------|---------|
| Size         | mm   | 150X50  | 150X80  | 15X6    | 15X8    | 15X10   | 20X6    |
| Dim.<br>(mm) | А    | 105     | 105     | 31.8    | 31.8    | 31.8    | 36.6    |
| Size         | Inch | 3/4X1/4 | 3/4X3/8 | 3/4X1/2 | 1X1/4   | 1X3/8   | 1X1/2   |
| Size         | mm   | 20X8    | 20X10   | 20X15   | 25X8    | 25X10   | 25X15   |
| Dim.<br>(mm) | А    | 36.6    | 36.6    | 36.6    | 42.9    | 42.9    | 42.9    |









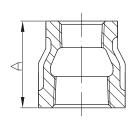




Threads: ASME B1.20.1, ISO 7-1

# Reducing Couplings



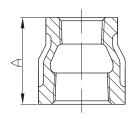


| Size         | Inch | 1X3/4    | 11/4X1/4 | 11/4X3/8 | 11/4X1/2 | 11/4X3/4 | 11/4X1 |
|--------------|------|----------|----------|----------|----------|----------|--------|
| Size         | mm   | 25X20    | 32X8     | 32X10    | 32X15    | 32X20    | 32X25  |
| Dim.<br>(mm) | А    | 42.9     | 52.3     | 52.3     | 52.3     | 52.3     | 52.3   |
| Size         | Inch | 11/2X1/4 | 11/2X3/8 | 11/2X1/2 | 11/2X3/4 | 11/2X1   | 2X1/2  |
| Size         | mm   | 40X8     | 40X10    | 40X15    | 40X20    | 40X25    | 50X15  |
| Dim.<br>(mm) | А    | 58.7     | 58.7     | 58.7     | 58.7     | 58.7     | 71.4   |

### **Reducing Couplings**





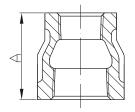


| Size         | Inch | 11/2X11/4 | 2X3/4    | 2X1    | 2X11/4    | 2X11/2    |
|--------------|------|-----------|----------|--------|-----------|-----------|
| Size         | mm   | 40X32     | 50X20    | 50X25  | 50X32     | 50X40     |
| Dim.<br>(mm) | А    | 58.7      | 71.4     | 71.4   | 71.4      | 71.4      |
| Size         | Inch | 21/2X1/2  | 21/2X3/4 | 21/2X1 | 21/2X11/4 | 21/2X11/2 |
| Size         | mm   | 65X15     | 65X20    | 65X25  | 65X32     | 65X40     |
| Dim.<br>(mm) | А    | 82.6      | 82.6     | 82.6   | 82.6      | 82.6      |

### **Reducing Couplings**





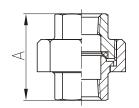


| Size         | Inch | 21/2X2 | 3X1/2 | 3X3/4  | 3X1     | 3X11/4  |
|--------------|------|--------|-------|--------|---------|---------|
| Size         | mm   | 65X50  | 80X15 | 80X20  | 80X25   | 80X32   |
| Dim.<br>(mm) | А    | 82.6   | 93.7  | 93.7   | 93.7    | 93.7    |
| Size         | Inch | 3X11/2 | 3X2   | 3X21/2 | 1/4X1/8 | 8X6     |
| Size         | mm   | 80X40  | 80X50 | 80X65  | 8X6     | 200X150 |
| Dim.<br>(mm) | А    | 93.7   | 93.7  | 93.7   | 25.4    | 131     |

### **Brass Seat Unions**







| Size         | Inch  | 1/8  | 1/4  | 3/8  | 1/2  | 3/4  | 1    | 11/4 |
|--------------|-------|------|------|------|------|------|------|------|
| Size         | mm    | 6    | 8    | 10   | 15   | 20   | 25   | 32   |
| Dim.<br>(mm) | A Min | 32   | 36.5 | 41   | 43.5 | 49.5 | 52.5 | 57.5 |
| Size         | Inch  | 11/2 | 2    | 21/2 | 3    | 4    | 6    |      |
| Size         | mm    | 40   | 50   | 65   | 80   | 100  | 150  |      |
| Dim.<br>(mm) | A Min | 61   | 70   | 82   | 89   | 98   | 145  |      |













Unions B16.39

ASME B1.20.1, ISO 7-1 Threads:

#### Outside Hex. Bushings



| Size         | Inch | 4X3     | 3/8X1/8 | 3/8X1/4 | 5X4     | 6X5     | 1/2X1/8 | 1/2X1/4 |
|--------------|------|---------|---------|---------|---------|---------|---------|---------|
| Size         | mm   | 100X80  | 10X6    | 10X8    | 125X100 | 150X125 | 15X6    | 15X8    |
| Dim.<br>(mm) | А    | 43.7    | 16.3    | 16.3    | 46      | 51.6    | 19      | 19      |
| Size         | Inch | 1/2X3/8 | 3/4X1/8 | 3/4X1/4 | 3/4X3/8 | 3/4X1/2 | 1X1/2   | 1X3/4   |
| Size         | mm   | 15X10   | 20X6    | 20X8    | 20X10   | 20X15   | 25X15   | 25X20   |
| Dim.<br>(mm) | А    | 19      | 21.6    | 21.6    | 21.6    | 21.6    | 25.5    | 25.5    |

### Outside Hex. Bushings



| Size         | Inch | 11/4X3/4 | 11/4X1 | 11/2X1 | 11/2X11/4 | 2X11/4  | 2X11/2  |
|--------------|------|----------|--------|--------|-----------|---------|---------|
| Size         | mm   | 32X20    | 32X25  | 40X25  | 40X32     | 50X32   | 50X40   |
| Dim.<br>(mm) | А    | 27.4     | 27.4   | 29     | 29        | 31      | 31      |
| Size         | Inch | 21/2X2   | 21/2X2 | 3X2    | 3X21/2    | 1/4X1/8 | 8X6     |
| Size         | mm   | 65X40    | 65X50  | 80X50  | 80X65     | 8X6     | 200X150 |
| Dim.<br>(mm) | А    | 38.4     | 36.6   | 40.9   | 38.9      | 14.8    | 70      |

### Inside Hex. Bushings



| Size         | Inch | 4X3/4  | 4X1    | 4X11/4 | 4X11/2  | 4X11/2 | 4X11/2 |
|--------------|------|--------|--------|--------|---------|--------|--------|
| Size         | mm   | 100X20 | 100X25 | 100X32 | 100X40  | 100X50 | 100X65 |
| Dim.<br>(mm) | А    | 46.2   | 46.2   | 46.2   | 46.2    | 46.2   | 46.2   |
| Size         | Inch | 6X21/2 | 6X21/2 | 6X21/2 | 6X21/2  | 1X1/4  | 1X1/4  |
| Size         | mm   | 150X50 | 150X65 | 150X80 | 150X100 | 25X6   | 25X8   |
| Dim.<br>(mm) | А    | 54.7   | 54.7   | 54.7   | 54.7    | 26.7   | 26.7   |

### Inside Hex. Bushings



| Size         | Inch | 1X3/8    | 11/4X3/8 | 11/4X1/2 | 11/2X1/4 | 11/2X3/8 |
|--------------|------|----------|----------|----------|----------|----------|
| Size         | mm   | 25X10    | 32X8     | 32X10    | 40X8     | 40X10    |
| Dim.<br>(mm) | А    | 26.7     | 28.9     | 28.9     | 30.5     | 30.5     |
| Size         | Inch | 11/2X1/2 | 11/2X3/4 | 2X1      | 2X1      | 2X1      |
| Size         | mm   | 40X15    | 40X20    | 50X8     | 50X10    | 50X15    |
| Dim.<br>(mm) | А    | 30.5     | 30.5     | 32.8     | 32.8     | 32.8     |





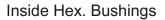






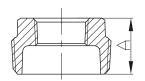
Fittings ASME B16.3, B16.14 Unions B16.39

Threads: ASME B1.20.1, ISO 7-1







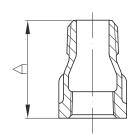


| Size         | Inch | 2X1   | 2X1    | 21/2X1/2 | 21/2X3/4 | 21/2X1/2 | 21/2X3/4 |
|--------------|------|-------|--------|----------|----------|----------|----------|
| Size         | mm   | 50X20 | 50X25  | 65X15    | 65X20    | 65X25    | 65X32    |
| Dim.<br>(mm) | А    | 32.8  | 32.8   | 38.4     | 38.4     | 38.4     | 38.4     |
| Size         | Inch | 3X2   | 3X21/2 | 3X2      | 3X21/2   | 3X2      |          |
| Size         | mm   | 80X15 | 80X20  | 80X25    | 80X32    | 80X40    |          |
| Dim.<br>(mm) | А    | 40.9  | 40.9   | 40.9     | 40.9     | 40.9     |          |

#### MxF Extension Piece



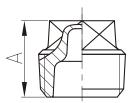




| Size         | Inch | 1/2 | 3/4 |
|--------------|------|-----|-----|
| Size         | mm   | 15  | 20  |
| Dim.<br>(mm) | А    | 43  | 48  |

# Cored Plugs

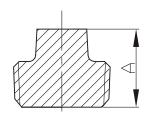




| Size         | Inch | 1/8  | 1/4  | 3/8  | 1/2  | 3/4  | 1    | 11/4 |
|--------------|------|------|------|------|------|------|------|------|
| Size         | mm   | 6    | 8    | 10   | 15   | 20   | 25   | 32   |
| Dim.<br>(mm) | А    | 15.5 | 18.3 | 20.1 | 23.9 | 27.2 | 31.8 | 34.5 |
| Size         | Inch | 11/2 | 2    | 21/2 | 3    | 4    | 6    |      |
| Size         | mm   | 40   | 50   | 65   | 80   | 100  | 150  |      |
| Dim.<br>(mm) | А    | 36.9 | 39.7 | 46   | 49   | 64.5 | 71.5 |      |

### Solid Plugs





| Size         | Inch | 1/8  | 1/4  | 3/8  | 1/2  | 3/4  | 1    |
|--------------|------|------|------|------|------|------|------|
| Size         | mm   | 6    | 8    | 10   | 15   | 20   | 25   |
| Dim.<br>(mm) | А    | 15.5 | 18.3 | 20.1 | 23.9 | 27.2 | 31.8 |
| Size         | Inch | 11/4 | 11/2 | 2    | 21/2 | 3    | 4    |
| Size         | mm   | 32   | 40   | 50   | 65   | 80   | 100  |
| Dim.<br>(mm) | А    | 34.5 | 36.9 | 39.7 | 46   | 49   | 64.5 |











Materials: ASTM A197 / A197M Dimensions: Fittings ASME B16.3,

Threads:

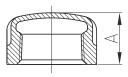
Fittings ASME B16.3, B16.14 Unions B16.39

ASME B1.20.1, ISO 7-1

### Caps



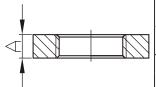




| Size         | Inch  | 1/8  | 1/4  | 3/8  | 1/2  | 3/4  | 1    | 11/4 | 11/2 |
|--------------|-------|------|------|------|------|------|------|------|------|
| Size         | mm    | 6    | 8    | 10   | 15   | 20   | 25   | 32   | 40   |
| Dim.<br>(mm) | A Min | 13.5 | 16.0 | 18.8 | 22.1 | 24.6 | 29.5 | 32.5 | 33.8 |
| Size         | Inch  | 2    | 21/2 | 3    | 4    | 5    | 6    | 8    |      |
| Size         | mm    | 50   | 65   | 80   | 100  | 125  | 150  | 200  |      |
| Dim.<br>(mm) | А     | 36.8 | 43.2 | 45.7 | 52.8 | 58.9 | 64.8 | 76.2 |      |

Hex. Locknuts

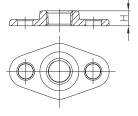




| Size         | Inch  | 1/8  | 1/4  | 3/8  | 1/2  | 3/4 | 1    |
|--------------|-------|------|------|------|------|-----|------|
| Size         | mm    | 6    | 8    | 10   | 15   | 20  | 25   |
| Dim.<br>(mm) | A Min | 4.8  | 6.4  | 7.1  | 7.9  | 8.6 | 9.7  |
| Size         | Inch  | 11/4 | 11/2 | 2    | 21/2 | 3   | 4    |
| Size         | mm    | 32   | 40   | 50   | 65   | 80  | 100  |
| Dim.<br>(mm) | A Min | 10.7 | 11.9 | 13.5 | 15   | 17  | 20.3 |

### Wastenuts



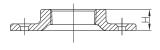


| Size         | Inch  | 1/2  | 3/4 | 1    | 11/4 | 11/2 | 2  |
|--------------|-------|------|-----|------|------|------|----|
| Size         | mm    | 15   | 20  | 25   | 32   | 40   | 50 |
| Dim.<br>(mm) | A Min | 12   | 13  | 13.5 | 15   | 16   | 18 |
| Size         | Inch  | 21/2 |     |      |      |      |    |
| Size         | mm    | 65   |     |      |      |      |    |
| Dim.<br>(mm) | A Min | 20   |     |      |      |      |    |

### Floor Flanges







| Size         | Inch  | 1/4               | 3/8 | 1/2  | 3/4  | 1    | 11/4 |
|--------------|-------|-------------------|-----|------|------|------|------|
| Size         | mm    | 8                 | 10  | 15   | 20   | 25   | 32   |
| Dim.<br>(mm) | A Min | A Min 12 14 14 16 |     | 16   | 17   | 19   |      |
| Size         | Inch  | 11/2              | 2   | 21/2 | 3    | 4    |      |
| Size         | mm    | 40                | 50  | 65   | 80   | 100  |      |
| Dim.<br>(mm) | A Min | 22                | 25  | 26.2 | 27.3 | 30.5 |      |









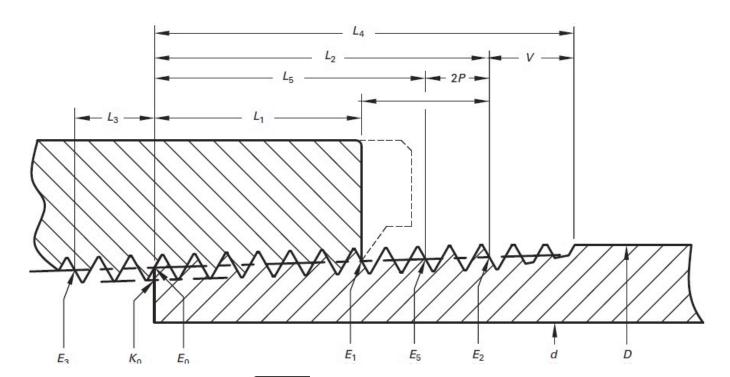




Materials: ASTM A197 / A197M Dimensions: Fittings ASME B16.3, B16.14

Unions B16.39

Threads: ASME B1.20.1, ISO 7-1



|         |        |          |            | Pitch          |        |         |                        |           |         |           |                  |                   |
|---------|--------|----------|------------|----------------|--------|---------|------------------------|-----------|---------|-----------|------------------|-------------------|
|         |        |          |            | Diameter       |        |         |                        |           |         |           | Lengt            | h, L <sub>1</sub> |
|         |        |          |            | at             |        |         | _                      |           |         |           | Plane 1          | to L <sub>2</sub> |
|         |        | _        |            | Beginning      | Hand-t | ight    |                        | Effective | Thread, |           | Plan             | e,                |
|         | O.D.   |          | Pitch      | of             | Engage | ment    |                        | Exter     | nal     |           | Exter            | nal               |
| Nominal | of     |          | of         | External       | Lengt  | :h,¹    | Pitch                  | Leng      | th,³    | Pitch     | Thre             | ad,               |
| Pipe    | Pipe,  | Threads/ | Thread     | Thread         | L 1    |         | Diameter, <sup>2</sup> | L 2       |         | Diameter, | L <sub>2</sub> - | L 1               |
| Size    | D      | Inch, n  | P          | E <sub>0</sub> | in.    | Threads | E 1                    | in.       | Threads | E 3       | in.              | Threads           |
| 1       | 2      | 3        | 4          | 5              | 6      | 7       | 8                      | 9         | 10      | 11        | 12               | 13                |
| 1/8     | 0.4050 | 27       | 0.03703704 | 0.36351        | 0.1615 | 4.36    | 0.37360                | 0.2639    | 7.13    | 0.38000   | 0.1024           | 2.76              |
| 1/4     | 0.5400 | 18       | 0.0555556  | 0.47739        | 0.2278 | 4.10    | 0.49163                | 0.4018    | 7.23    | 0.50250   | 0.1740           | 3.13              |
| 3/8     | 0.6750 | 18       | 0.0555556  | 0.61201        | 0.2400 | 4.32    | 0.62701                | 0.4078    | 7.34    | 0.63750   | 0.1678           | 3.02              |
| 1/2     | 0.8400 | 14       | 0.07142857 | 0.75843        | 0.3200 | 4.48    | 0.77843                | 0.5337    | 7.47    | 0.79178   | 0.2137           | 2.99              |
| 3/4     | 1.0500 | 14       | 0.07142857 | 0.96768        | 0.3390 | 4.75    | 0.98887                | 0.5457    | 7.64    | 1.00178   | 0.2067           | 2.89              |
| 1       | 1.3150 | 11.5     | 0.08695652 | 1.21363        | 0.4000 | 4.60    | 1.23863                | 0.6838    | 7.85    | 1.25631   | 0.2828           | 3.25              |
| 1 1/4   | 1.6600 | 11.5     | 0.08695652 | 1.55713        | 0.4200 | 4.83    | 1.58338                | 0.7068    | 8.13    | 1.60131   | 0.2868           | 3.30              |
| 1 1/2   | 1.9000 | 11.5     | 0.08695652 | 1.79609        | 0.4200 | 4.83    | 1.82234                | 0.7235    | 8.32    | 1.84131   | 0.3035           | 3.49              |
| 2       | 2.3750 | 11.5     | 0.08695652 | 2.26902        | 0.4360 | 5.01    | 2.29627                | 0.7565    | 8.70    | 2.31630   | 0.3205           | 3.69              |
| 2 1/2   | 2.8750 | 8        | 0.12500000 | 2.71953        | 0.6820 | 5.46    | 2.76216                | 1.1375    | 9.10    | 2.79063   | 0.4555           | 3.64              |
| 3       | 3.5000 | 8        | 0.12500000 | 3.34063        | 0.7660 | 6.13    | 3.38850                | 1.2000    | 9.60    | 3.41563   | 0.4340           | 3.47              |
| 4       | 4.5000 | 8        | 0.12500000 | 4.33438        | 0.8440 | 6.75    | 4.38713                | 1.3000    | 10.40   | 4.41563   | 0.4560           | 3.65              |
| 5       | 5.5630 | 8        | 0.12500000 | 5.39073        | 0.9370 | 7.50    | 5.44929                | 1.4063    | 11.25   | 5.47863   | 0.4693           | 3.75              |
| 6       | 6.6250 | 8        | 0.12500000 | 6.44609        | 0.9580 | 7.66    | 6.50597                | 1.5125    | 12.10   | 6.54063   | 0.5545           | 4.44              |

GENERAL NOTE: The basic dimensions of the American National Standard Taper Pipe Thread are given in inches to four or five decimal places. While this implies a greater degree of precision than is ordinarily attained, these dimensions are the basis of gage dimensions and are so expressed for the purpose of eliminating errors in computations.

NOTES:

(1) Also length of L1 ring gage and length from gaging notch to small end of L1 plug gage.

(2) Also pitch diameter at gaging notch of L1 plug gage (hand-tight plane).

(3) Also threaded length of L1 ripug gage.

(4) Reference dimension.

(5) The length L5 from the end of the pipe determines the plane beyond which the thread form is incomplete at the crest. The next two threads are complete at the root. At this plane, the cone formed by the crests of the thread intersects the cylinder forming the external surface of the pipe (L5 p L2 – 2P).

(6) Given as information for use in selecting tap drills (see Nonmandatory Appendix B).









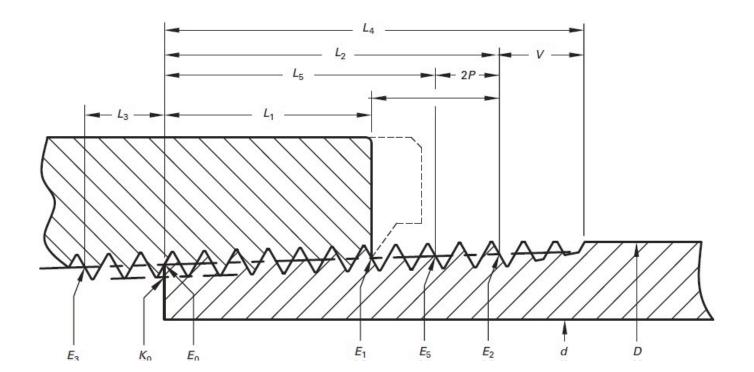




Materials: ASTM A197 / A197M Dimensions: Fittings ASME B16.3, B16.14

Unions B16.39

Threads: ASME B1.20.1, ISO 7-1



|         |          |         | _         |          |         |                |         |           |          | Change   | Basic              |
|---------|----------|---------|-----------|----------|---------|----------------|---------|-----------|----------|----------|--------------------|
|         | Wrench I | Make-Up |           |          |         |                |         |           |          | in       | Minor <sup>6</sup> |
|         | Len      | gth,    |           |          |         | Overall        |         |           |          | Diameter | Diameter           |
|         | Internal | Thread  |           |          |         | Length         |         |           | Height   | per Turn | at Small           |
| Nominal | Len      | gth,    | Pitch     | Vanish T | hread,  | External       | Length, | Pitch     | of       | of       | End                |
| Pipe    | L        | 3       | Diameter, | V        |         | Thread,4       | L 5     | Diameter, | Thrread, | Thrread, | of Pipe,           |
| Size    | in.      | Threads | E 3       | in.      | Threads | L <sub>4</sub> | in.     | E 5       | h        | 0.0625/n | <b>K</b> 9         |
| 1       | 14       | 15      | 16        | 17       | 18      | 19             | 20      | 21        | 22       | 23       | 24                 |
| 1/8     | 0.1111   | 3       | 0.35656   | 0.1285   | 3.47    | 0.3924         | 0.1898  | 0.37357   | 0.02963  | 0.00231  | 0.3338             |
| 1/4     | 0.1667   | 3       | 0.46697   | 0.1928   | 3.47    | 0.5946         | 0.2907  | 0.49556   | 0.04444  | 0.00347  | 0.4329             |
| 3/8     | 0.1667   | 3       | 0.60160   | 0.1928   | 3.47    | 0.6006         | 0.2967  | 0.63056   | 0.04444  | 0.00347  | 0.5675             |
| 1/2     | 0.2143   | 3       | 0.74504   | 0.2479   | 3.47    | 0.7815         | 0.3909  | 0.78286   | 0.05714  | 0.00446  | 0.7014             |
| 3/4     | 0.2143   | 3       | 0.95429   | 0.2479   | 3.47    | 0.7935         | 0.4029  | 0.99286   | 0.05714  | 0.00446  | 0.9106             |
| 1       | 0.2609   | 3       | 1.19733   | 0.3017   | 3.47    | 0.9845         | 0.5089  | 1.24544   | 0.06957  | 0.00543  | 1.4410             |
| 1 1/4   | 0.2609   | 3       | 1.54083   | 0.3017   | 3.47    | 1.0085         | 0.5329  | 1.59044   | 0.06957  | 0.00543  | 1.4876             |
| 1 1/2   | 0.2609   | 3       | 1.77978   | 0.3017   | 3.47    | 1.0252         | 0.5496  | 1.83044   | 0.06957  | 0.00543  | 1.7266             |
| 2       | 0.2609   | 3       | 2.25272   | 0.3017   | 3.47    | 1.0582         | 0.5826  | 2.30543   | 0.06957  | 0.00543  | 2.1995             |
| 2 1/2   | 0.2500   | 2       | 2.70391   | 0.4338   | 3.47    | 1.5712         | 0.8875  | 2.77500   | 0.10000  | 0.00781  | 2.6195             |
| 3       | 0.2500   | 2       | 3.32500   | 0.4338   | 3.47    | 1.6337         | 0.9500  | 3.40000   | 0.10000  | 0.00781  | 3.2406             |
| 4       | 0.2500   | 2       | 4.31875   | 0.4338   | 3.47    | 1.7337         | 1.0500  | 4.40000   | 0.10000  | 0.00781  | 4.2343             |
| 5       | 0.2500   | 2       | 5.37511   | 0.4338   | 3.47    | 1.8400         | 1.1563  | 5.46300   | 0.10000  | 0.00781  | 5.2907             |
| 6       | 0.2500   | 2       | 6.43047   | 0.4338   | 3.47    | 1.9462         | 1.2625  | 6.52500   | 0.10000  | 0.00781  | 6.3460             |

GENERAL NOTE: The basic dimensions of the American National Standard Taper Pipe Thread are given in inches to four or five decimal places. While this implies a greater degree of precision than is ordinarily attained, these dimensions are the basis of gage dimensions and are so expressed for the purpose of eliminating errors in computations.

NOTES:

(1) Also length of L1 ring gage and length from gaging notch to small end of L1 plug gage.

(2) Also pitch diameter at gaging notch of L1 plug gage (hand-tight plane).

(3) Also threaded length of L1 ripug gage.

(4) Reference dimension.

(5) The length L5 from the end of the pipe determines the plane beyond which the thread form is incomplete at the crest. The next two threads are complete at the root. At this plane, the cone formed by the crests of the thread intersects the cylinder forming the external surface of the pipe (L5 p L2 – 2P).

(6) Given as information for use in selecting tap drills (see Nonmandatory Appendix B).













Materials: ASTM A197 / A197M Dimensions: Fittings ASME B16.3, B16.14

Unions B16.39

Threads: ASME B1.20.1, ISO 7-1

### **Pressure/Temperature Rating**

| Tempe            | Class<br>#150    |      |
|------------------|------------------|------|
| °F               | °c               | psig |
| -20~150          | -29~66           | 300  |
| 200              | 93               | 265  |
| 250 <sup>1</sup> | 121 <sup>1</sup> | 225  |
| 300              | 149              | 185  |
| 350 <sup>1</sup> | 177 <sup>1</sup> | 150  |

<sup>&</sup>lt;sup>1</sup> Permissable for service temperature up to 366 °F/186 °C, reflecting the temperature of saturated steam at 150 psig.

Please note that although products are designed using the ASME B16.3 standard which have a pressure rating of 300 psi, FM approval is only for up to 175 psi and there are no temperature range requirements specified by the FM1920 standard.

Certifications: cULus, UPC, ISO9001, CRN

Most but not all products represented in this document are FM Approved. For listing/approval details and limitations, please contact your Sales Representative or visit https://www.approvalguide.com

- 15 -BMI201908 BMI Canada - Technical Specifications