

# Adaptors, Plugs and Manifolds

Parker Legris offers a **wide range of adaptors and manifolds** compatible with the various Parker Legris fitting systems. This range of products provides the user with a **complete solution** covering numerous applications, both in non-corrosive and corrosive environments.

## Product Advantages

### Large Range & Flexibility

A complete offer, from the simple adaptor to a modular manifold solution

Large selection of materials for excellent chemical compatibility: brass, steel, stainless steel, aluminium

Surface treatment for increased corrosion resistance: nickel-plated brass or anodised aluminium

Stainless steel for corrosive environments

BSPP, BSPT, NPT and metric threads

### Performance

Robust design

Suitable for low to high pressure, depending on configuration and material

Forged shapes for mechanical strength


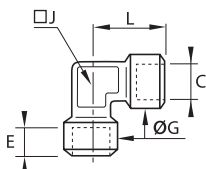



## Technical Characteristics


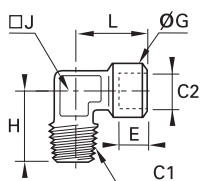

| Products            | Adaptors and Plugs  |                     |   |   | Manifolds          |
|---------------------|---|---------------------|---|---|--------------------|
| Component Materials | Brass   | Nickel-plated brass | Stainless steel 316L  | Steel   | Anodised aluminium |
| Working Pressure    | 1/8" to 1/2": 200 bar<br>3/4" and 1": 150 bar<br>1 1/4" to 2": 100 bar,<br>without sealing washer | 60 bar              | 1/8" to 1/2": 200 bar<br>3/4" and 1": 150 bar<br>1 1/4" to 2": 100 bar,<br>without sealing washer | 1/8" to 1/2": 200 bar<br>3/4" and 1": 150 bar<br>1 1/4" to 2": 100 bar,<br>without sealing washer | 20 bar             |
| Working Temperature | -40°C to +150°C<br>without sealing washer<br>-20°C to +80°C<br>with sealing washer                | -10°C to +80°C      | -20°C to +180°C   | -10°C to +80°C  | -10°C to +80°C     |

# Brass Adaptors


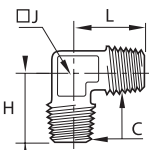

## 0143 Equal Threaded Elbow, Female BSPP Thread

|   |  |          |   |          |          |          |          |           |
|---|--|----------|---|----------|----------|----------|----------|-----------|
|  | <p>Brass</p>  | <b>C</b> |  | <b>E</b> | <b>G</b> | <b>J</b> | <b>L</b> | <b>kg</b> |
|   |  | G1/8     | 0143 10 10  | 7.5      | 16.5     | 12       | 22.5     | 0.044     |
|   |  | G1/4     | 0143 13 13  | 11       | 18.5     | 15       | 26.5     | 0.055     |
|   |  | G3/8     | 0143 17 17  | 11.5     | 23.5     | 19       | 31.5     | 0.100     |
|   |  | G1/2     | 0143 21 21  | 15       | 28       | 23       | 34.5     | 0.150     |
|   |  | G3/4     | 0143 27 27  | 16.5     | 34       | 27       | 43.5     | 0.242     |


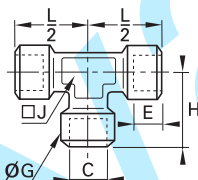

## 0144 Equal Stud Elbow, Male BSPT/Female BSPP Thread

|  | Brass<br> | C1   | C2   |  | E    |  | G    | H  | J  | L    | kg    |
|---|--|------|------|---|------|--|------|----|----|------|-------|
|   |  | R1/8 | G1/8 |   | 7.5  |  | 16.5 | 23 | 12 | 22.5 | 0.036 |
|   |  | R1/4 | G1/4 |   | 11   |  | 18.5 | 26 | 15 | 26.5 | 0.054 |
|   |  | R3/8 | G3/8 |   | 11.5 |  | 23.5 | 30 | 19 | 31.5 | 0.088 |
|   |  | R1/2 | G1/2 |   | 15   |  | 28   | 35 | 23 | 34.5 | 0.140 |
|   |  | R3/4 | G3/4 |   | 16.5 |  | 34   | 40 | 27 | 43.5 | 0.228 |


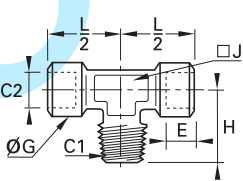

## 0152 Equal Elbow, Male BSPT Thread

|  |   |          |   |          |          |          |           |
|--|---|----------|---|----------|----------|----------|-----------|
|  | <p>Brass</p>  | <b>C</b> |  | <b>H</b> | <b>J</b> | <b>L</b> | <b>kg</b> |
|  |   | R1/8     | 0152 10 10  | 19.5     | 10       | 19.5     | 0.017     |
|  |   | R1/4     | 0152 13 13  | 25       | 15       | 25       | 0.045     |
|  |   | R3/8     | 0152 17 17  | 26.5     | 15       | 26.5     | 0.055     |
|  |   | R1/2     | 0152 21 21  | 31.5     | 19       | 31.5     | 0.088     |
|  |   | R3/4     | 0152 27 27  | 35.5     | 23       | 35.5     | 0.153     |

## 0145 Equal Tee, Female BSPP Thread


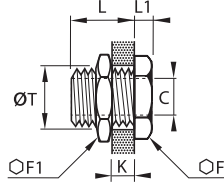
|   |   |   |            |          |          |          |            |           |       |
|---|---|---|------------|----------|----------|----------|------------|-----------|-------|
|  | <b>Brass</b><br> | <b>C</b><br> | <b>E</b>   | <b>G</b> | <b>H</b> | <b>J</b> | <b>L/2</b> | <b>kg</b> |       |
|   |   | G1/8  | 0145 10 10 | 7.5      | 16.5     | 22.5     | 12         | 22.5      | 0.056 |
|   |   | G1/4  | 0145 13 13 | 11       | 18.5     | 26.5     | 15         | 26.5      | 0.083 |
|   |   | G3/8  | 0145 17 17 | 11.5     | 23.5     | 31       | 19         | 31        | 0.131 |
|   |   | G1/2  | 0145 21 21 | 15       | 28       | 38       | 23         | 38        | 0.242 |
|   |   | G3/4  | 0145 27 27 | 16.5     | 34       | 47.5     | 27         | 47.5      | 0.378 |

## 0158 Stud Branch Tee, Male BSPT/Female BSPP Thread


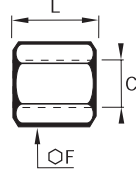
|  | Brass<br> | C1   | C2   |  | E    | G    | H    | J  | L/2  | kg    |
|---|--|------|------|---|------|------|------|----|------|-------|
|   |  | R1/8 | G1/8 |   | 7.5  | 16.5 | 21.5 | 12 | 21.5 | 0.046 |
|   |  | R1/4 | G1/4 |   | 11   | 18.5 | 26   | 15 | 26   | 0.074 |
|   |  | R3/8 | G3/8 |   | 11.5 | 23.5 | 30   | 19 | 30   | 0.120 |
|   |  | R1/2 | G1/2 |   | 15   | 28   | 36   | 23 | 36   | 0.205 |
|   |  | R3/4 | G3/4 |   | 16.5 | 34   | 44   | 27 | 44   | 0.310 |

# Brass Adaptors


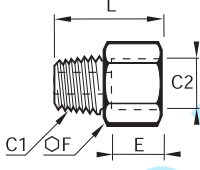
## 0117 Equal Bulkhead Coupling, Female BSPP and Metric Thread

|  | Brass   | C      |   | F  | F1 | K <sub>max</sub> | L    | L1  | ØT   | kg    |
|--|---|--------|---|----|----|------------------|------|-----|------|-------|
|  |   |        |   |    |    |                  |      |     |      |       |
|  |  |        |  |    |    |                  |      |     |      |       |
|  |   | M5x0.8 | <a href="#">0117 00 19</a>  | 14 | 14 | 7                | 10.5 | 3.5 | 10.5 | 0.012 |
|  |   | G1/8   | <a href="#">0117 00 10</a>  | 19 | 22 | 9                | 14   | 4   | 16.5 | 0.033 |
|  |   | G1/4   | <a href="#">0117 00 13</a>  | 24 | 27 | 15               | 21   | 4   | 20.5 | 0.057 |
|  |   | G3/8   | <a href="#">0117 00 17</a>  | 30 | 32 | 14               | 21   | 5   | 26.5 | 0.096 |
|  |   | G1/2   | <a href="#">0117 00 21</a>  | 32 | 36 | 20               | 27   | 6   | 28.5 | 0.116 |
|  |   | G3/4   | <a href="#">0117 00 27</a>  | 41 | 41 | 22.5             | 30   | 6   | 34.5 | 0.161 |
|  |   | G1     | <a href="#">0117 00 34</a>  | 46 | 50 | 24.5             | 34   | 8   | 42.5 | 0.266 |
|  |   | G1 1/4 | <a href="#">0117 00 42</a>  | 55 | 55 | 29.5             | 39   | 8   | 49.5 | 0.299 |
|  |   | G1 1/2 | <a href="#">0117 00 49</a>  | 60 | 60 | 29.5             | 39   | 8   | 54.5 | 0.303 |


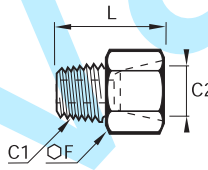
## 0155 Equal Connector, Female BSPP Thread

|  | Brass   | C    |   | F  | L  | kg    |
|--|---|------|---|----|----|-------|
|  |   |      |   |    |    |       |
|  |  |      |  |    |    |       |
|  |   | G1/8 | <a href="#">0155 10 10</a>  | 14 | 17 | 0.014 |
|  |   | G1/4 | <a href="#">0155 13 13</a>  | 17 | 24 | 0.026 |
|  |   | G3/8 | <a href="#">0155 17 17</a>  | 22 | 25 | 0.046 |
|  |   | G1/2 | <a href="#">0155 21 21</a>  | 27 | 32 | 0.084 |
|  |   | G3/4 | <a href="#">0155 27 27</a>  | 32 | 35 | 0.109 |


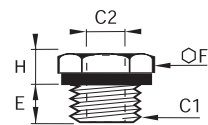
## 0164 Adaptor, Male NPT/Female BSPP Thread

|  | Brass   | C1     | C2   |   | E    | F  | L    | kg    |
|--|---|--------|------|---|------|----|------|-------|
|  |   |        |      |   |      |    |      |       |
|  |  |        |      |  |      |    |      |       |
|  |   | NPT1/8 | G1/8 | <a href="#">0164 11 10</a>  | 7.5  | 14 | 20   | 0.015 |
|  |   | NPT1/4 | G1/4 | <a href="#">0164 14 13</a>  | 11   | 17 | 27.5 | 0.028 |
|  |   | NPT3/8 | G3/8 | <a href="#">0164 18 17</a>  | 11.5 | 22 | 28.5 | 0.044 |
|  |   | NPT1/2 | G1/2 | <a href="#">0164 22 21</a>  | 15   | 27 | 36.5 | 0.082 |
|  |   | NPT3/4 | G3/4 | <a href="#">0164 28 27</a>  | 16.5 | 32 | 38.5 | 0.110 |

## 0167 Adaptor, Male BSPT/Female NPT Thread

|  | Brass   | C1   | C2     |   | F  | L    | kg    |
|--|---|------|--------|---|----|------|-------|
|  |   |      |        |   |    |      |       |
|  |  |      |        |  |    |      |       |
|  |   | R1/8 | NPT1/8 | <a href="#">0167 10 11</a>  | 14 | 21   | 0.016 |
|  |   | R1/4 | NPT1/4 | <a href="#">0167 13 14</a>  | 17 | 28.5 | 0.029 |
|  |   | R3/8 | NPT3/8 | <a href="#">0167 17 18</a>  | 22 | 29.5 | 0.047 |
|  |   | R1/2 | NPT1/2 | <a href="#">0167 21 22</a>  | 27 | 37.5 | 0.088 |
|  |   | R3/4 | NPT3/4 | <a href="#">0167 27 28</a>  | 32 | 39.5 | 0.120 |


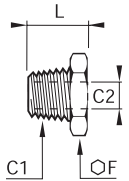
## 0168 Reducer, Male BSPP/Female BSPP and Metric Thread

|  | Brass, technical polymer  | C1   | C2     |   | E  | F  | H  | kg    |
|--|---|------|--------|---|----|----|----|-------|
|  |   |      |        |   |    |    |    |       |
|  |  |      |        |  |    |    |    |       |
|  |   | G1/8 | M5x0.8 | <a href="#">0168 10 19</a>  | 7  | 14 | 6  | 0.009 |
|  |   | G1/4 | M5x0.8 | <a href="#">0168 13 19</a>  | 7  | 17 | 7  | 0.017 |
|  |   | G1/8 | G1/8   | <a href="#">0168 13 10</a>  | 7  | 17 | 7  | 0.011 |
|  |   | G3/8 | G1/8   | <a href="#">0168 17 10</a>  | 9  | 19 | 6  | 0.019 |
|  |   | G1/4 | G1/4   | <a href="#">0168 17 13</a>  | 9  | 19 | 6  | 0.013 |
|  |   | G1/8 | G1/8   | <a href="#">0168 21 10</a>  | 11 | 24 | 10 | 0.050 |
|  |   | G1/2 | G1/4   | <a href="#">0168 21 13</a>  | 11 | 24 | 10 | 0.041 |
|  |   | G3/8 | G3/8   | <a href="#">0168 21 17</a>  | 11 | 24 | 10 | 0.029 |
|  |   | G1/4 | G1/4   | <a href="#">0168 27 13</a>  | 11 | 32 | 12 | 0.098 |
|  |   | G3/4 | G3/8   | <a href="#">0168 27 17</a>  | 11 | 32 | 12 | 0.083 |
|  |   | G1/2 | G1/2   | <a href="#">0168 27 21</a>  | 11 | 32 | 12 | 0.063 |


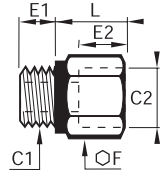
With fitted captive seal

# Brass Adaptors

## 0163 Unequal Reducer, Male BSPT/Female BSPP Thread


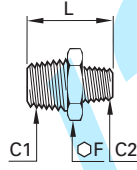
|   | Brass   | C1   | C2   |                            | F  | L    | kg    |
|---|---|------|------|----------------------------|----|------|-------|
|   |   |      |      |                            |    |      |       |
|  |  | R1/4 | G1/8 | <a href="#">0163 13 10</a> | 14 | 16   | 0.009 |
|   |   | R3/8 | G1/8 | <a href="#">0163 17 10</a> | 17 | 16.5 | 0.020 |
|   |   |      | G1/4 | <a href="#">0163 17 13</a> | 17 | 16.5 | 0.012 |
|   |   |      | G1/8 | <a href="#">0163 21 10</a> | 22 | 21   | 0.048 |
|   |   | R1/2 | G1/4 | <a href="#">0163 21 13</a> | 22 | 21   | 0.038 |
|   |   |      | G3/8 | <a href="#">0163 21 17</a> | 22 | 21   | 0.024 |
|   |   |      | G1/4 | <a href="#">0163 27 13</a> | 27 | 24   | 0.084 |
|   |   | R3/4 | G3/8 | <a href="#">0163 27 17</a> | 27 | 24   | 0.069 |
|   |   |      | G1/2 | <a href="#">0163 27 21</a> | 27 | 24   | 0.046 |
|   |   |      |      |                            |    |      |       |
|   |   |      |      |                            |    |      |       |
|   |   |      |      |                            |    |      |       |

## 0169 Increaser, Male/Female BSPP Thread


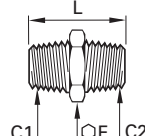
|   | Brass, technical polymer  | C1   | C2   |                            | E1  | E2   | F  | L    | kg    |
|---|---|------|------|----------------------------|-----|------|----|------|-------|
|   |   |      |      |                            |     |      |    |      |       |
|  |  | G1/8 | G1/4 | <a href="#">0169 10 13</a> | 5   | 11   | 17 | 16   | 0.019 |
|   |   |      | G3/8 | <a href="#">0169 10 17</a> | 5   | 14   | 22 | 19.5 | 0.039 |
|   |   | G1/4 | G3/8 | <a href="#">0169 13 17</a> | 7   | 14   | 22 | 19.5 | 0.041 |
|   |   |      | G1/2 | <a href="#">0169 13 21</a> | 7   | 14.5 | 27 | 20.5 | 0.062 |
|   |   | G3/8 | G1/2 | <a href="#">0169 17 21</a> | 8   | 14.5 | 27 | 20.5 | 0.062 |
|   |   |      | G3/4 | <a href="#">0169 17 27</a> | 8   | 15.5 | 32 | 22   | 0.082 |
|   |   | G1/2 | G3/4 | <a href="#">0169 21 27</a> | 9.5 | 15.5 | 32 | 22.5 | 0.087 |
|   |   |      |      |                            |     |      |    |      |       |
|   |   |      |      |                            |     |      |    |      |       |
|   |   |      |      |                            |     |      |    |      |       |

With fitted captive seal

## 0121 Straight Male Adaptor, Male BSPT Thread


|   | Brass   | C1     | C2     |                            | F  | L    | kg    |
|---|---|--------|--------|----------------------------|----|------|-------|
|   |   |        |        |                            |    |      |       |
|  |  | R1/8   | R1/8   | <a href="#">0121 10 10</a> | 11 | 19   | 0.009 |
|   |   | R1/4   | R1/8   | <a href="#">0121 13 10</a> | 14 | 23.5 | 0.017 |
|   |   |        | R1/4   | <a href="#">0121 13 13</a> | 14 | 27   | 0.020 |
|   |   |        | R1/8   | <a href="#">0121 17 10</a> | 17 | 24   | 0.021 |
|   |   | R3/8   | R1/4   | <a href="#">0121 17 13</a> | 17 | 27.5 | 0.025 |
|   |   |        | R3/8   | <a href="#">0121 17 17</a> | 17 | 28   | 0.026 |
|   |   |        | R1/8   | <a href="#">0121 21 10</a> | 22 | 28.5 | 0.042 |
|   |   |        | R1/4   | <a href="#">0121 21 13</a> | 22 | 32   | 0.045 |
|   |   | R1/2   | R3/8   | <a href="#">0121 21 17</a> | 22 | 32.5 | 0.045 |
|   |   |        | R1/2   | <a href="#">0121 21 21</a> | 22 | 36   | 0.052 |
|   |   |        | R1/4   | <a href="#">0121 27 13</a> | 27 | 35   | 0.078 |
|   |   | R3/4   | R3/8   | <a href="#">0121 27 17</a> | 27 | 35.5 | 0.078 |
|   |   |        | R1/2   | <a href="#">0121 27 21</a> | 27 | 39   | 0.085 |
|   |   |        | R3/4   | <a href="#">0121 27 27</a> | 27 | 40   | 0.091 |
|   |   |        | R3/8   | <a href="#">0121 34 17</a> | 36 | 38.5 | 0.127 |
|   |   | R1     | R1/2   | <a href="#">0121 34 21</a> | 36 | 42   | 0.134 |
|   |   |        | R3/4   | <a href="#">0121 34 27</a> | 36 | 43   | 0.143 |
|   |   |        | R1     | <a href="#">0121 34 34</a> | 36 | 46   | 0.154 |
|   |   |        | R1/2   | <a href="#">0121 42 21</a> | 46 | 46.5 | 0.220 |
|   |   |        | R3/4   | <a href="#">0121 42 27</a> | 46 | 47.5 | 0.224 |
|   |   | R1 1/4 | R1     | <a href="#">0121 42 34</a> | 46 | 50.5 | 0.239 |
|   |   |        | R1 1/4 | <a href="#">0121 42 42</a> | 46 | 53   | 0.230 |
|   |   |        |        |                            |    |      |       |
|   |   |        |        |                            |    |      |       |
|   |   |        |        |                            |    |      |       |
|   |   |        |        |                            |    |      |       |
|   |   |        |        |                            |    |      |       |
|   |   |        |        |                            |    |      |       |
|   |   |        |        |                            |    |      |       |
|   |   |        |        |                            |    |      |       |
|   |   |        |        |                            |    |      |       |
|   |   |        |        |                            |    |      |       |
|   |   |        |        |                            |    |      |       |

## 0121 Equal Adaptor, Male NPT/BSPT Thread

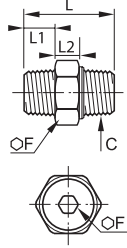
|   | Brass   | C1     | C2   |                            | F  | L  | kg    |
|---|---|--------|------|----------------------------|----|----|-------|
|   |   |        |      |                            |    |    |       |
|  |  | NPT1/8 | R1/8 | <a href="#">0121 11 10</a> | 11 | 19 | 0.009 |
|   |   | NPT1/4 | R1/4 | <a href="#">0121 14 13</a> | 14 | 27 | 0.021 |
|   |   | NPT3/8 | R3/8 | <a href="#">0121 18 17</a> | 17 | 28 | 0.026 |
|   |   | NPT1/2 | R1/2 | <a href="#">0121 22 21</a> | 22 | 36 | 0.052 |
|   |   | NPT3/4 | R3/4 | <a href="#">0121 28 27</a> | 27 | 40 | 0.090 |

# Brass Adaptors

## 0929 Equal 3-Piece Adaptor, Male BSPT Thread



Brass, NBR



| C    |            | F  | F1 | L    | L1   | L2  | kg    |
|------|------------|----|----|------|------|-----|-------|
| R1/8 | 0929 01 10 | 15 | 5  | 27   | 9    | 8.5 | 0.017 |
| R1/4 | 0929 01 13 | 19 | 6  | 33.5 | 11.5 | 9.5 | 0.035 |
| R3/8 | 0929 01 17 | 22 | 8  | 36.5 | 13   | 10  | 0.054 |
| R1/2 | 0929 01 21 | 27 | 12 | 45   | 15.5 | 12  | 0.088 |

This connection accessory makes assembly much easier thanks to its 3-piece design.  
 To join 2 threaded components, simply push together and tighten the sleeve nut, thus reducing installation time.  
 Maximum working pressure: 50 bar  
 Working temperature: -10° to +80°C  
 Supplied with seal


## 0123 Tailpiece Adaptor for Rubber Hose, Male BSPT Thread

Brass

| ØD | ØD1  | C    |            | F  | L    | L1   | ØT  | kg    |
|----|------|------|------------|----|------|------|-----|-------|
| 4  | 6    | R1/8 | 0123 04 10 | 10 | 34   | 22.5 | 3.3 | 0.008 |
| 6  | 8    | R1/8 | 0123 06 10 | 10 | 34   | 22.5 | 5   | 0.009 |
| 7  | 9    | R1/8 | 0123 07 10 | 10 | 34   | 22.5 | 5   | 0.009 |
|    | 9    | R1/4 | 0123 07 13 | 14 | 38.5 | 22.5 | 6   | 0.018 |
| 10 | 9    | R3/8 | 0123 07 17 | 17 | 39   | 22.5 | 6   | 0.023 |
|    | 12.2 | R1/8 | 0123 10 10 | 13 | 34   | 22.5 | 5   | 0.014 |
|    | 12.2 | R1/4 | 0123 10 13 | 14 | 38.5 | 22.5 | 7   | 0.020 |
| 12 | 12.2 | R3/8 | 0123 10 17 | 17 | 39   | 22.5 | 9.5 | 0.023 |
|    | 14   | R3/8 | 0123 12 17 | 17 | 46   | 29.5 | 11  | 0.026 |
|    | 15   | R1/4 | 0123 13 13 | 17 | 45.5 | 29.5 | 7   | 0.026 |
| 13 | 15   | R3/8 | 0123 13 17 | 17 | 46   | 29.5 | 11  | 0.027 |
|    | 15   | R1/2 | 0123 13 21 | 22 | 50.5 | 29.5 | 12  | 0.045 |
|    | 18.5 | R3/8 | 0123 16 17 | 19 | 54.5 | 38   | 11  | 0.040 |
| 16 | 18.5 | R1/2 | 0123 16 21 | 22 | 59   | 38   | 14  | 0.054 |
|    | 18.5 | R3/4 | 0123 16 27 | 27 | 62   | 38   | 15  | 0.084 |
|    | 21.5 | R3/8 | 0123 19 17 | 22 | 54.5 | 38   | 11  | 0.046 |
| 19 | 21.5 | R1/2 | 0123 19 21 | 22 | 59   | 38   | 14  | 0.056 |
|    | 21.5 | R3/4 | 0123 19 27 | 27 | 62   | 38   | 18  | 0.082 |
| 25 | 26.7 | R3/4 | 0123 25 27 | 27 | 62   | 38   | 18  | 0.079 |
|    | 27   | R1   | 0123 25 34 | 36 | 65   | 38   | 24  | 0.124 |
| 32 | 34.5 | R1   | 0123 32 34 | 36 | 70   | 43   | 24  | 0.141 |

## 0136 Tailpiece Adaptor for Flexible Tubing, Male BSPT Thread

Brass

| ØD | ØD1  | C    |  | F  | L    | L1 | ØT | kg    |
|----|------|------|---|----|------|----|----|-------|
| 4  | 4.3  | R1/8 | 0136 06 10  | 10 | 26.5 | 15 | 2  | 0.007 |
|    | 4.3  | R1/4 | 0136 06 13  | 14 | 31   | 15 | 2  | 0.015 |
|    | 4.3  | R3/8 | 0136 06 17  | 17 | 31.5 | 15 | 2  | 0.020 |
| 6  | 6.4  | R1/8 | 0136 08 10  | 10 | 26.5 | 15 | 4  | 0.007 |
|    | 6.4  | R1/4 | 0136 08 13  | 14 | 31   | 15 | 4  | 0.015 |
|    | 6.4  | R3/8 | 0136 08 17  | 17 | 31.5 | 15 | 4  | 0.020 |
| 8  | 8.4  | R1/4 | 0136 10 13  | 14 | 31   | 15 | 6  | 0.016 |
|    | 8.4  | R3/8 | 0136 10 17  | 17 | 31.5 | 15 | 6  | 0.020 |
|    | 8.4  | R1/2 | 0136 10 21  | 22 | 36   | 15 | 6  | 0.039 |
| 10 | 10.7 | R1/4 | 0136 12 13  | 14 | 36   | 20 | 7  | 0.018 |
|    | 10.7 | R3/8 | 0136 12 17  | 17 | 36.5 | 20 | 8  | 0.023 |
|    | 10.7 | R1/2 | 0136 12 21  | 22 | 41   | 20 | 8  | 0.041 |
| 12 | 12.7 | R1/4 | 0136 14 13  | 14 | 36   | 20 | 7  | 0.019 |
|    | 12.7 | R3/8 | 0136 14 17  | 17 | 36.5 | 20 | 10 | 0.023 |
|    | 12.7 | R1/2 | 0136 14 21  | 22 | 41   | 20 | 10 | 0.040 |
| 13 | 12.7 | R3/4 | 0136 14 27  | 27 | 44   | 20 | 10 | 0.071 |
|    | 13.7 | R3/8 | 0136 16 17  | 17 | 36.5 | 20 | 11 | 0.023 |
|    | 13.7 | R1/2 | 0136 16 21  | 22 | 41   | 20 | 11 | 0.041 |
|    | 13.7 | R3/4 | 0136 16 27  | 27 | 44   | 20 | 11 | 0.070 |