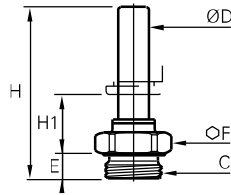


# Stud Fittings

## 3131 Stud Standpipe, Male BSPP and Metric Thread

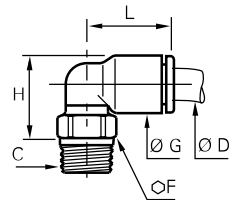
Technical polymer, nickel-plated brass, NBR



| ØD | C      |                            | E   | F  | H    | H1   | Kg    |
|----|--------|----------------------------|-----|----|------|------|-------|
| 4  | M5x0.8 | <a href="#">3131 04 19</a> | 3.5 | 8  | 31   | 16   | 0.002 |
|    | G1/8   | <a href="#">3131 04 10</a> | 5   | 13 | 30   | 13.5 | 0.005 |
|    | G1/4   | <a href="#">3131 04 13</a> | 5.5 | 16 | 31   | 13.5 | 0.010 |
| 6  | G1/8   | <a href="#">3131 06 10</a> | 5   | 13 | 32   | 13.5 | 0.005 |
|    | G1/4   | <a href="#">3131 06 13</a> | 5.5 | 16 | 33   | 13.5 | 0.010 |
|    | G1/8   | <a href="#">3131 08 10</a> | 5   | 13 | 35.5 | 12.5 | 0.008 |
| 8  | G1/4   | <a href="#">3131 08 13</a> | 5.5 | 16 | 34.5 | 10.5 | 0.010 |
|    | G3/8   | <a href="#">3131 08 17</a> | 5.5 | 20 | 34.5 | 10.5 | 0.015 |
|    | G1/4   | <a href="#">3131 10 13</a> | 5.5 | 16 | 43.5 | 17.5 | 0.012 |
| 10 | G3/8   | <a href="#">3131 10 17</a> | 5.5 | 20 | 41.5 | 15.5 | 0.015 |
|    | G1/2   | <a href="#">3131 10 21</a> | 7.5 | 24 | 41.5 | 15.5 | 0.024 |
|    | G3/8   | <a href="#">3131 12 17</a> | 5.5 | 20 | 42   | 12   | 0.015 |
| 12 | G1/2   | <a href="#">3131 12 21</a> | 7   | 24 | 43.5 | 12   | 0.025 |
|    | G3/8   | <a href="#">3131 14 17</a> | 5.5 | 20 | 46.5 | 14   | 0.015 |
| 14 | G1/2   | <a href="#">3131 14 21</a> | 7   | 24 | 48   | 13.5 | 0.025 |

## 3109 Stud Elbow, Male BSPT Thread

Technical polymer, nickel-plated brass, NBR



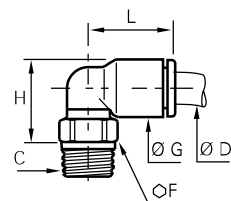
| ØD | C    |                            | F  | G    | H    | L    | Kg    |
|----|------|----------------------------|----|------|------|------|-------|
| 4  | R1/8 | <a href="#">3109 04 10</a> | 10 | 8.5  | 13.5 | 14   | 0.006 |
|    | R1/4 | <a href="#">3109 04 13</a> | 14 | 8.5  | 14   | 14   | 0.015 |
|    | R3/8 | <a href="#">3109 04 17</a> | 17 | 8.5  | 13.5 | 14   | 0.018 |
| 6  | R1/8 | <a href="#">3109 06 10</a> | 10 | 10.5 | 15.5 | 16   | 0.006 |
|    | R1/4 | <a href="#">3109 06 13</a> | 14 | 10.5 | 16   | 16   | 0.015 |
|    | R3/8 | <a href="#">3109 06 17</a> | 17 | 10.5 | 16   | 16   | 0.019 |
| 8  | R1/2 | <a href="#">3109 06 21</a> | 21 | 10.5 | 16.5 | 16   | 0.034 |
|    | R1/8 | <a href="#">3109 08 10</a> | 10 | 13.5 | 19   | 23   | 0.007 |
|    | R1/4 | <a href="#">3109 08 13</a> | 14 | 13.5 | 18   | 23   | 0.014 |
| 10 | R3/8 | <a href="#">3109 08 17</a> | 17 | 13.5 | 18   | 23   | 0.018 |
|    | R1/2 | <a href="#">3109 08 21</a> | 21 | 13.5 | 19.5 | 23   | 0.032 |
|    | R1/8 | <a href="#">3109 10 10</a> | 15 | 16   | 23   | 26.5 | 0.012 |
| 12 | R1/4 | <a href="#">3109 10 13</a> | 15 | 16   | 22   | 26.5 | 0.014 |
|    | R3/8 | <a href="#">3109 10 17</a> | 17 | 16   | 22   | 26.5 | 0.020 |
|    | R1/2 | <a href="#">3109 10 21</a> | 21 | 16   | 22   | 26.5 | 0.032 |
| 14 | R1/4 | <a href="#">3109 12 13</a> | 15 | 19   | 25   | 31   | 0.016 |
|    | R3/8 | <a href="#">3109 12 17</a> | 17 | 19   | 25   | 31   | 0.022 |
|    | R1/2 | <a href="#">3109 12 21</a> | 21 | 19   | 25   | 31   | 0.035 |
| 16 | R3/8 | <a href="#">3109 14 17</a> | 20 | 22   | 30.5 | 35.5 | 0.031 |
|    | R1/2 | <a href="#">3109 14 21</a> | 24 | 22   | 28.5 | 35.5 | 0.041 |
|    | R3/8 | <a href="#">3109 16 17</a> | 27 | 27   | 53   | 39   | 0.106 |
|    | R1/2 | <a href="#">3109 16 21</a> | 27 | 27   | 53   | 39   | 0.104 |

Pre-coated thread

The body swivels for positioning purposes.

## 3109 Stud Elbow, Male NPT Thread

Technical polymer, nickel-plated brass, NBR



| ØD | C      |                            | F  | G    | H    | L    | Kg    |
|----|--------|----------------------------|----|------|------|------|-------|
| 4  | NPT1/8 | <a href="#">3109 04 11</a> | 11 | 8.4  | 13.5 | 14   | 0.007 |
|    | NPT1/4 | <a href="#">3109 04 14</a> | 14 | 8.4  | 14   | 14   | 0.016 |
| 6  | NPT1/8 | <a href="#">3109 06 11</a> | 11 | 10.5 | 15.5 | 16   | 0.007 |
|    | NPT1/4 | <a href="#">3109 06 14</a> | 14 | 10.5 | 16   | 16   | 0.016 |
| 8  | NPT1/8 | <a href="#">3109 08 11</a> | 11 | 13.5 | 19   | 23.1 | 0.009 |
|    | NPT1/4 | <a href="#">3109 08 14</a> | 14 | 13.5 | 18   | 23.1 | 0.015 |
| 10 | NPT1/4 | <a href="#">3109 10 14</a> | 15 | 16   | 23   | 26.5 | 0.017 |
|    | NPT3/8 | <a href="#">3109 10 18</a> | 18 | 16   | 22   | 26.5 | 0.023 |
|    | NPT1/2 | <a href="#">3109 10 22</a> | 22 | 16   | 23   | 26.5 | 0.045 |
| 12 | NPT3/8 | <a href="#">3109 12 18</a> | 18 | 19   | 25   | 31   | 0.027 |
|    | NPT1/2 | <a href="#">3109 12 22</a> | 22 | 19   | 26   | 31   | 0.033 |

Pre-coated thread

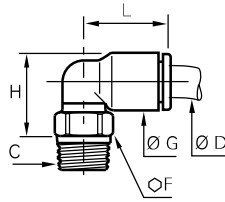
The body swivels for positioning purposes.

# Stud Fittings

## 3109 Stud Elbow, Male NPT Thread

Inch

Technical polymer, nickel-plated brass, NBR



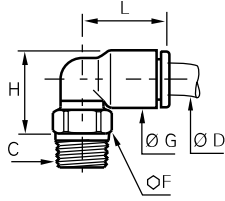
| ØD  | C      |            | F  | G    | H    | L    | Kg    |
|-----|--------|------------|----|------|------|------|-------|
| 1/8 | NPT1/8 | 3109 53 11 | 11 | 8.5  | 13.5 | 14.5 | 0.007 |
|     | NPT1/4 | 3109 53 14 | 14 | 8.5  | 14   | 14.5 | 0.015 |
| 1/4 | NPT1/8 | 3109 56 11 | 11 | 10.9 | 17   | 18   | 0.008 |
|     | NPT1/4 | 3109 56 14 | 14 | 10.9 | 16   | 18   | 0.014 |
|     | NPT3/8 | 3109 56 18 | 18 | 10.9 | 16.5 | 18   | 0.020 |
| 3/8 | NPT1/8 | 3109 60 11 | 15 | 16   | 23.1 | 27.4 | 0.013 |
|     | NPT1/4 | 3109 60 14 | 15 | 16   | 23.1 | 27.4 | 0.017 |
|     | NPT3/8 | 3109 60 18 | 18 | 16   | 22.1 | 27.4 | 0.024 |
| 1/2 | NPT3/8 | 3109 62 18 | 20 | 22.1 | 31   | 35.1 | 0.033 |
|     | NPT1/2 | 3109 62 22 | 24 | 22.1 | 28.4 | 35.1 | 0.045 |

Pre-coated thread. The body swivels for positioning purposes.  
5/32"(4 mm) and 5/16"(8 mm) are also available.

## 3109 Stud Elbow, Male BSPT Thread

Inch

Technical polymer, nickel-plated brass, NBR

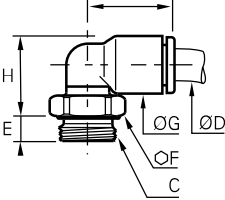


| ØD   | C    |            | F  | G    | H    | L    | Kg    |
|------|------|------------|----|------|------|------|-------|
| 1/8  | R1/8 | 3109 53 10 | 10 | 8.5  | 13.5 | 14.5 | 0.011 |
|      | R1/8 | 3109 55 10 | 11 | 10.9 | 17   | 21.6 | 0.010 |
| 3/16 | R1/4 | 3109 55 13 | 14 | 8.4  | 14   | 14   | 0.016 |
|      | R1/8 | 3109 56 10 | 10 | 10.9 | 17   | 18   | 0.006 |
| 1/4  | R1/4 | 3109 56 13 | 14 | 10.9 | 17   | 18   | 0.013 |
|      | R1/4 | 3109 60 13 | 15 | 16   | 22.1 | 26.4 | 0.016 |
| 3/8  | R3/8 | 3109 60 17 | 17 | 16   | 22.1 | 26.4 | 0.054 |
|      | R1/4 | 3109 62 13 | 20 | 22.1 | 31   | 35.1 | 0.064 |
| 1/2  | R3/8 | 3109 62 17 | 20 | 22.1 | 31   | 35.1 | 0.067 |
|      | R1/2 | 3109 62 21 | 24 | 22.1 | 28.4 | 35.1 | 0.046 |

Pre-coated thread. The body swivels for positioning purposes.  
5/32"(4 mm) and 5/16"(8 mm) are also available.

## 3199 Stud Elbow, Male BSPP and Metric Thread

Technical polymer, nickel-plated brass, NBR



| ØD | C       |             | E   | F  | G    | H    | L    | Kg    |
|----|---------|-------------|-----|----|------|------|------|-------|
| 3  | M3x0.5  | 3199 03 09  | 2.5 | 8  | 8.5  | 15   | 14.5 | 0.003 |
|    | M5x0.8  | 3199 03 19  | 3.5 | 8  | 8.5  | 13.5 | 14.5 | 0.003 |
|    | M3x0.5  | 3199 04 09* | 2.5 | 8  | 8.5  | 15   | 14.5 | 0.002 |
|    | M5x0.8  | 3199 04 19  | 3.5 | 8  | 8.5  | 13.5 | 14   | 0.002 |
| 4  | M7x1    | 3199 04 55  | 4.5 | 10 | 8.5  | 15   | 14   | 0.005 |
|    | G1/8    | 3199 04 10  | 5   | 13 | 8.5  | 13   | 14   | 0.006 |
|    | G1/4    | 3199 04 13  | 5.5 | 16 | 8.5  | 13   | 14   | 0.011 |
|    | M5x0.8  | 3199 06 19  | 3.5 | 8  | 10.5 | 15.5 | 16   | 0.003 |
| 6  | M7x1    | 3199 06 55  | 4.5 | 10 | 10.5 | 17.5 | 16   | 0.006 |
|    | M10x1   | 3199 06 60  | 5   | 13 | 10.5 | 15   | 14   | 0.006 |
|    | M12x1.5 | 3199 06 67  | 5.5 | 15 | 10.5 | 15   | 16   | 0.009 |
|    | G1/8    | 3199 06 10  | 5   | 13 | 10.5 | 15   | 16   | 0.006 |
| 8  | G1/4    | 3199 06 13  | 5.5 | 16 | 10.5 | 15   | 16   | 0.011 |
|    | G3/8    | 3199 06 17  | 5.5 | 20 | 10.5 | 15.5 | 16   | 0.022 |
|    | G1/2    | 3199 06 21  | 7   | 24 | 10.5 | 16   | 16   | 0.028 |
|    | M10x1   | 3199 08 60  | 5   | 13 | 13.5 | 20.5 | 23   | 0.009 |
| 10 | M12x1.5 | 3199 08 67  | 5.5 | 15 | 13.5 | 19.5 | 23   | 0.009 |
|    | G1/8    | 3199 08 10  | 4.5 | 13 | 13.5 | 20.5 | 23   | 0.009 |
|    | G1/4    | 3199 08 13  | 5.5 | 16 | 13.5 | 18.5 | 23   | 0.012 |
|    | G3/8    | 3199 08 17  | 5.5 | 20 | 13.5 | 18.5 | 23   | 0.017 |
| 12 | G1/2    | 3199 08 21  | 7   | 24 | 13.5 | 19   | 23   | 0.027 |
|    | G1/4    | 3199 10 13  | 5.5 | 16 | 16   | 23.5 | 26.5 | 0.014 |
|    | G3/8    | 3199 10 17  | 5.5 | 20 | 16   | 22   | 26.5 | 0.017 |
|    | G1/2    | 3199 10 21  | 7.5 | 24 | 16   | 22   | 26.5 | 0.027 |
| 14 | G1/4    | 3199 12 13  | 5.5 | 16 | 19   | 26.5 | 31   | 0.016 |
|    | G3/8    | 3199 12 17  | 5.5 | 20 | 19   | 25   | 31   | 0.019 |
|    | G1/2    | 3199 12 21  | 7   | 24 | 19   | 25   | 31   | 0.029 |
|    | G3/8    | 3199 14 17  | 5.5 | 20 | 22   | 32.5 | 35.5 | 0.029 |
| 16 | G1/2    | 3199 14 21  | 7   | 24 | 22   | 27   | 35.5 | 0.028 |
|    | G3/8    | 3199 16 17  | 7.5 | 27 | 27   | 54.5 | 39   | 0.101 |
|    | G1/2    | 3199 16 21  | 9   | 27 | 27   | 54.5 | 39   | 0.097 |

The body swivels for positioning purposes.

\*Bi-material seal