

## Dimensions

### Male Elbow: KQG2L



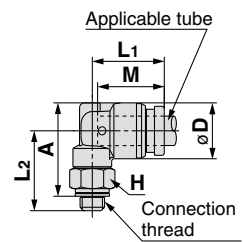
| Applicable tube O.D. (inch) | Connection thread UNF, NPT | Model        | H (Width across flat) | Note 1) $\phi D$ | L1   | L2   | A*   | M    | Note 2) Effective area (mm <sup>2</sup> ) | Weight (g) |
|-----------------------------|----------------------------|--------------|-----------------------|------------------|------|------|------|------|-------------------------------------------|------------|
| $\phi 1/8"$                 | 10-32UNF                   | KQG2L01-32   | 8                     | 8.3              | 13.1 | 14.8 | 16   | 12   | 2.6                                       | 6.3        |
|                             | 1/8                        | KQG2L01-N01S | 12                    |                  | 13.6 | 14.9 | 15.8 |      | 3                                         | 9          |
|                             | 1/4                        | KQG2L01-N02S | 14                    |                  | 13.6 | 18.7 | 18.4 |      | 3                                         | 16.7       |
| $\phi 5/32"$                | 10-32UNF                   | KQG2L03-32   | 8                     | 9.1              | 13.7 | 15.2 | 16.8 | 12.6 | 3.5                                       | 6.9        |
|                             | 1/8                        | KQG2L03-N01S | 12                    |                  | 14.4 | 15.3 | 16.6 |      | 4.2                                       | 9.9        |
|                             | 1/4                        | KQG2L03-N02S | 14                    |                  | 14.4 | 19.1 | 19.2 |      | 4.2                                       | 17.6       |
| $\phi 1/4"$                 | 10-32UNF                   | KQG2L07-32   | 8                     | 11.7             | 14.7 | 16.5 | 19.3 | 13.5 | 3.5                                       | 8.9        |
|                             | 1/8                        | KQG2L07-N01S | 12                    |                  | 15.9 | 16.6 | 19.2 |      | 11.4                                      | 11.7       |
|                             | 1/4                        | KQG2L07-N02S | 14                    |                  | 15.9 | 20.4 | 21.8 |      | 11.4                                      | 19.4       |
|                             | 3/8                        | KQG2L07-N03S | 19                    |                  | 15.9 | 22.2 | 23.3 |      | 11.4                                      | 34.2       |
| $\phi 5/16"$                | 1/8                        | KQG2L09-N01S | 12                    | 13.7             | 18.6 | 18.3 | 21.9 | 16.1 | 21.6                                      | 15.1       |
|                             | 1/4                        | KQG2L09-N02S | 14                    |                  | 19.1 | 21.5 | 23.9 |      | 21.6                                      | 21.1       |
|                             | 3/8                        | KQG2L09-N03S | 19                    |                  | 19.1 | 23.3 | 25.4 |      | 21.6                                      | 35.7       |
| $\phi 3/8"$                 | 1/8                        | KQG2L11-N01S | 12                    | 16               | 20   | 19.4 | 24.2 | 16.6 | 21.6                                      | 19.7       |
|                             | 1/4                        | KQG2L11-N02S | 14                    |                  | 21   | 22.6 | 26.2 |      | 35.2                                      | 23.2       |
|                             | 3/8                        | KQG2L11-N03S | 19                    |                  | 21   | 24.4 | 27.7 |      | 35.2                                      | 36.7       |
|                             | 1/2                        | KQG2L11-N04S | 22                    |                  | 22   | 28.2 | 29.8 |      | 35.2                                      | 60.2       |
| $\phi 1/2"$                 | 1/4                        | KQG2L13-N02S | 14                    | 19.6             | 22.7 | 24.4 | 29.8 | 18.5 | 50.2                                      | 29.4       |
|                             | 3/8                        | KQG2L13-N03S | 19                    |                  | 23.7 | 26.1 | 31.2 |      | 50.2                                      | 39.2       |
|                             | 1/2                        | KQG2L13-N04S | 22                    |                  | 23.7 | 29.9 | 33.3 |      | 50.2                                      | 61.3       |

\* Reference dimensions after installation of NPT thread

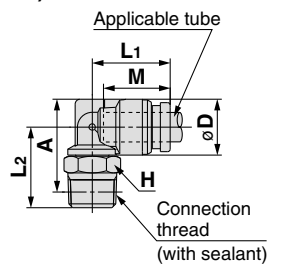
Note 1)  $\phi D$  is maximum diameter.

Note 2) Value of FEP tube.

(10-32UNF)



(NPT)



### Male Branch Tee: KQG2T



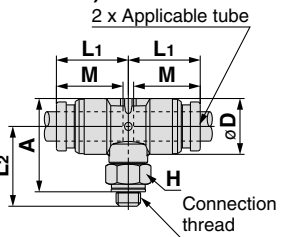
| Applicable tube O.D. (inch) | Connection thread UNF, NPT | Model        | H (Width across flat) | Note 1) $\phi D$ | L1   | L2   | A*   | M    | Note 2) Effective area (mm <sup>2</sup> ) | Weight (g) |
|-----------------------------|----------------------------|--------------|-----------------------|------------------|------|------|------|------|-------------------------------------------|------------|
| $\phi 1/8"$                 | 10-32UNF                   | KQG2T01-32   | 8                     | 8.3              | 13.1 | 14.8 | 16   | 12   | 3.2                                       | 8.1        |
|                             | 1/8                        | KQG2T01-N01S | 12                    |                  | 13.6 | 14.9 | 15.8 |      | 3.4                                       | 10.8       |
|                             | 1/4                        | KQG2T01-N02S | 14                    |                  | 13.6 | 18.7 | 18.4 |      | 3.4                                       | 18.5       |
| $\phi 5/32"$                | 10-32UNF                   | KQG2T03-32   | 8                     | 9.1              | 13.7 | 15.2 | 16.8 | 12.6 | 4.5                                       | 9          |
|                             | 1/8                        | KQG2T03-N01S | 12                    |                  | 14.4 | 15.3 | 16.6 |      | 6                                         | 11.8       |
|                             | 1/4                        | KQG2T03-N02S | 14                    |                  | 14.4 | 19.1 | 19.2 |      | 6                                         | 19.5       |
| $\phi 1/4"$                 | 10-32UNF                   | KQG2T07-32   | 8                     | 11.7             | 14.7 | 16.5 | 19.3 | 13.5 | 4.5                                       | 12.1       |
|                             | 1/8                        | KQG2T07-N01S | 12                    |                  | 15.9 | 16.6 | 19.2 |      | 13.9                                      | 15.1       |
|                             | 1/4                        | KQG2T07-N02S | 14                    |                  | 15.9 | 20.4 | 21.8 |      | 13.9                                      | 22.8       |
|                             | 3/8                        | KQG2T07-N03S | 19                    |                  | 15.9 | 22.2 | 23.3 |      | 13.9                                      | 37.7       |
| $\phi 5/16"$                | 1/8                        | KQG2T09-N01S | 12                    | 13.7             | 18.6 | 18.3 | 21.9 | 16.1 | 26.3                                      | 20.4       |
|                             | 1/4                        | KQG2T09-N02S | 14                    |                  | 19.1 | 21.5 | 23.9 |      | 26.3                                      | 26.3       |
|                             | 3/8                        | KQG2T09-N03S | 19                    |                  | 19.1 | 23.3 | 25.4 |      | 26.3                                      | 41         |
| $\phi 3/8"$                 | 1/8                        | KQG2T11-N01S | 12                    | 16               | 20   | 19.4 | 24.2 | 16.6 | 40.8                                      | 27.3       |
|                             | 1/4                        | KQG2T11-N02S | 14                    |                  | 21   | 22.6 | 26.2 |      | 40.8                                      | 30.5       |
|                             | 3/8                        | KQG2T11-N03S | 19                    |                  | 21   | 24.4 | 27.7 |      | 40.8                                      | 44         |
|                             | 1/2                        | KQG2T11-N04S | 22                    |                  | 22   | 28.2 | 29.8 |      | 40.8                                      | 67.4       |
| $\phi 1/2"$                 | 1/4                        | KQG2T13-N02S | 14                    | 19.6             | 22.7 | 24.4 | 29.8 | 18.5 | 57.2                                      | 41.1       |
|                             | 3/8                        | KQG2T13-N03S | 19                    |                  | 23.7 | 26.1 | 31.2 |      | 57.2                                      | 50.2       |
|                             | 1/2                        | KQG2T13-N04S | 22                    |                  | 23.7 | 29.9 | 33.3 |      | 57.2                                      | 72.3       |

\* Reference dimensions after installation of NPT thread

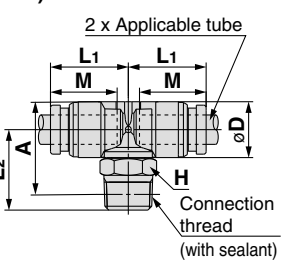
Note 1)  $\phi D$  is maximum diameter.

Note 2) Value of FEP tube.

(10-32UNF)



(NPT)



### Union Elbow: KQG2L



| Applicable tube O.D. (inch) | Model      | Note 1) $\phi D$ | L    | A    | Q   | M    | $\phi N$ | $\phi O$ | Note 2) Effective area (mm <sup>2</sup> ) | Weight (g) |
|-----------------------------|------------|------------------|------|------|-----|------|----------|----------|-------------------------------------------|------------|
| $\phi 1/8"$                 | KQG2L01-00 | 8.3              | 13.6 | 19.3 | 2.9 | 12   | 3.2      | 5.6      | 3                                         | 6.3        |
| $\phi 5/32"$                | KQG2L03-00 | 9.1              | 14.6 | 20.5 | 3.1 | 12.6 | 3.2      | 5.6      | 4.2                                       | 7.4        |
| $\phi 1/4"$                 | KQG2L07-00 | 11.7             | 16.7 | 23.2 | 3.7 | 13.5 | 3.2      | 5.6      | 11.4                                      | 11.5       |
| $\phi 5/16"$                | KQG2L09-00 | 13.7             | 20.1 | 29.1 | 5   | 16.1 | 4.2      | 8        | 21.6                                      | 20.2       |
| $\phi 3/8"$                 | KQG2L11-00 | 16               | 21.4 | 31.1 | 5.7 | 16.6 | 4.2      | 8        | 35.2                                      | 28.2       |
| $\phi 1/2"$                 | KQG2L13-00 | 19.6             | 24.9 | 35.3 | 6.4 | 18.5 | 4.2      | 8        | 50.2                                      | 41.7       |

Note 1)  $\phi D$  is maximum diameter.

Note 2) Value of FEP tube.

