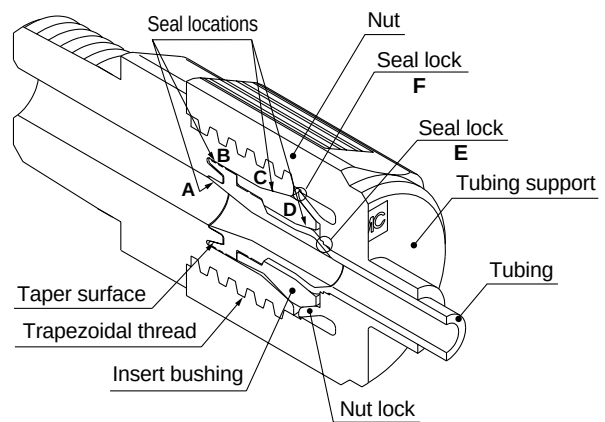
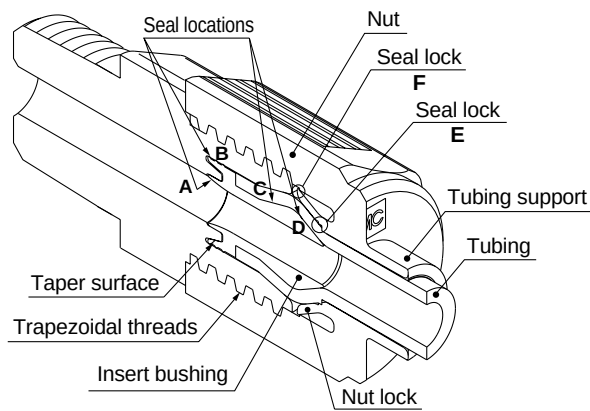


## Construction



### Reducer type configuration

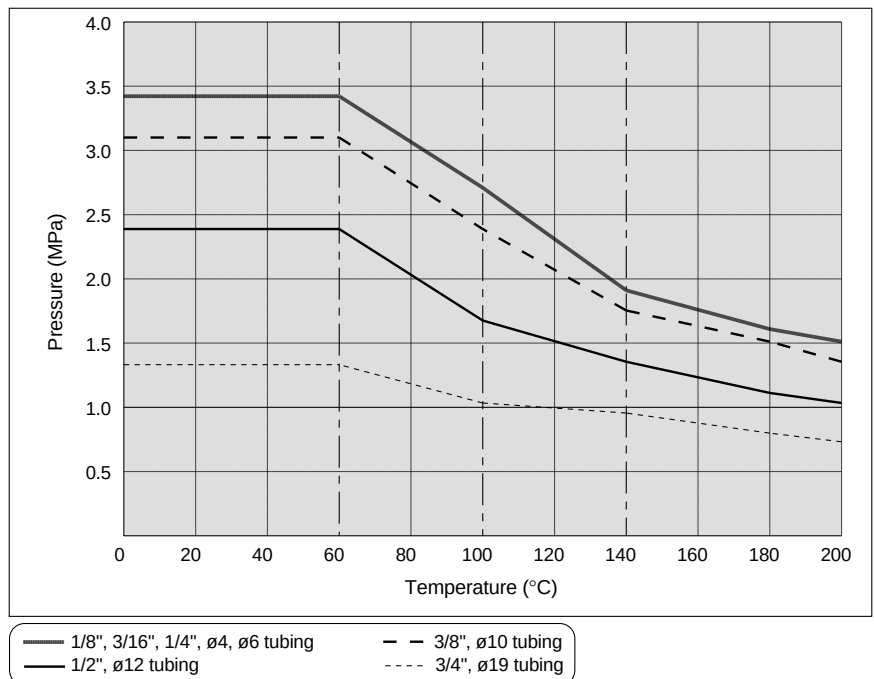
Material: High purity PFA  
Applicable tubing material: High purity PFA

## Specifications



| Model                                | LQ□20                                                                   | LQ□30 | LQ□40 | LQ□50 |
|--------------------------------------|-------------------------------------------------------------------------|-------|-------|-------|
| Maximum operating pressure (at 20°C) | 1.0MPa                                                                  |       |       |       |
| Proof pressure                       | Refer to the withstand pressure and heat resistance performance curves. |       |       |       |
| Operating temperature                | 0 to 200°C                                                              |       |       |       |

## Burst Pressure and Heat Resistance Performance



K□

M□

H□

D□

MS

T□

**LQ**

Clean Room

# Series LQ

## Dimensions

### Male Connector: LQH



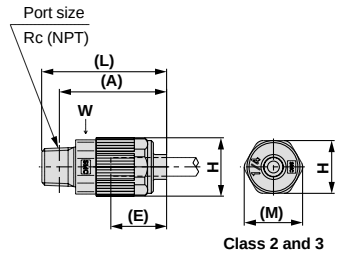
#### Metric sizes

| Model     | Applicable tubing O.D. | Connection threads Rc, NPT | A    | E  | H  | L    | M    | N  | W  |
|-----------|------------------------|----------------------------|------|----|----|------|------|----|----|
| LQH22□-04 | ø4                     | 1/4                        | 36.5 | 19 | 18 | 42.5 | 19.9 | —  | 16 |
| LQH22□-06 | ø6                     | 3/8                        | 42   | 22 | 24 | 48.5 | 26.2 | —  | 24 |
| LQH33□-06 | ø6                     |                            | 42.5 |    |    | 49   |      |    |    |
| LQH33□-08 | ø8                     |                            | 42.5 |    |    | 49   |      |    |    |
| LQH33□-10 | ø10                    | 1/2                        | 50   | 28 | 30 | 58   | 33.1 | 21 | 30 |
| LQH44□-10 | ø10                    |                            | 51   |    |    | 59   |      |    |    |
| LQH44□-12 | ø12                    |                            | 57.5 |    |    | 67   |      |    |    |
| LQH55□-12 | ø12                    | 3/4                        | 58.5 | 32 | 36 | 68   | 40   | 26 | 36 |
| LQH55□-19 | ø19                    |                            | 58.5 |    |    | 68   |      |    |    |

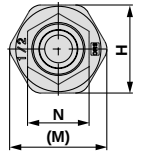
#### Inch sizes

| Model     | Applicable tubing O.D. | Connection threads Rc, NPT | A    | E  | H  | L    | M    | N  | W  |
|-----------|------------------------|----------------------------|------|----|----|------|------|----|----|
| LQH22□-03 | 1/8"                   | 1/4                        | 36.5 | 19 | 18 | 42.5 | 19.9 | —  | 16 |
| LQH22□-05 | 3/16"                  |                            | 36.5 | 19 | 18 | 42.5 | 19.9 | —  | 16 |
| LQH22□-07 | 1/4"                   |                            | 36.5 | 19 | 18 | 42.5 | 19.9 | —  | 16 |
| LQH33□-07 | 1/4"                   | 3/8                        | 42   | 22 | 24 | 48.5 | 26.2 | —  | 24 |
| LQH33□-11 | 3/8"                   |                            | 42.5 |    |    | 49   |      |    |    |
| LQH44□-11 | 3/8"                   |                            | 42.5 |    |    | 49   |      |    |    |
| LQH44□-13 | 1/2"                   | 1/2                        | 50   | 28 | 30 | 58   | 33.1 | 21 | 30 |
| LQH44□-13 | 1/2"                   |                            | 51   |    |    | 59   |      |    |    |
| LQH55□-13 | 1/2"                   |                            | 57.5 |    |    | 67   |      |    |    |
| LQH55□-19 | 3/4"                   | 3/4                        | 58.5 | 32 | 36 | 68   | 40   | 26 | 36 |

Note 1) "A" dimensions are reference dimensions for Rc (NPT) threads after installation.



Class 2 and 3



Class 4 and 5

### Male elbow: LQL



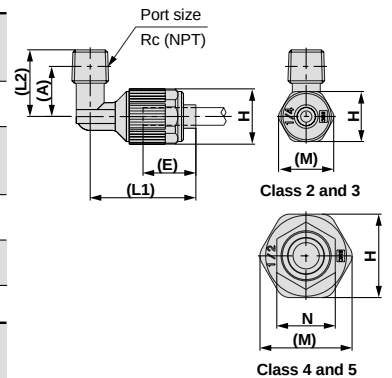
#### Metric sizes

| Model     | Applicable tubing O.D. | Connection threads Rc, NPT | A    | E  | H  | L1   | L2 | M    | N  |
|-----------|------------------------|----------------------------|------|----|----|------|----|------|----|
| LQL22□-04 | ø4                     | 1/4                        | 18   | 19 | 18 | 38   | 24 | 19.9 | —  |
| LQL22□-06 | ø6                     | 3/8                        | 21.5 | 22 | 24 | 42.5 | 28 | 26.2 | —  |
| LQL33□-06 | ø6                     |                            | 21.5 |    |    | 43   |    |      |    |
| LQL33□-08 | ø8                     |                            | 21.5 |    |    | 43   |    |      |    |
| LQL33□-10 | ø10                    | 1/2                        | 27   | 28 | 30 | 51   | 35 | 33.1 | 21 |
| LQL44□-10 | ø10                    |                            | 27   |    |    | 52   |    |      |    |
| LQL44□-12 | ø12                    |                            | 27   |    |    | 52   |    |      |    |
| LQL55□-12 | ø12                    | 3/4                        | 33.5 | 32 | 36 | 58   | 43 | 40   | 26 |
| LQL55□-19 | ø19                    |                            | 33.5 |    |    | 59   |    |      |    |

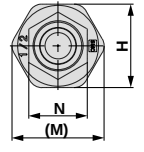
#### Inch sizes

| Model     | Applicable tubing O.D. | Connection threads Rc, NPT | A    | E  | H  | L1   | L2 | M    | N  |
|-----------|------------------------|----------------------------|------|----|----|------|----|------|----|
| LQL22□-03 | 1/8"                   | 1/4                        | 18   | 19 | 18 | 38   | 24 | 19.9 | —  |
| LQL22□-05 | 3/16"                  |                            | 18   | 19 | 18 | 38   | 24 | 19.9 | —  |
| LQL22□-07 | 1/4"                   |                            | 18   | 19 | 18 | 38   | 24 | 19.9 | —  |
| LQL33□-07 | 1/4"                   | 3/8                        | 21.5 | 22 | 24 | 42.5 | 28 | 26.2 | —  |
| LQL33□-11 | 3/8"                   |                            | 21.5 |    |    | 43   |    |      |    |
| LQL44□-11 | 3/8"                   |                            | 21.5 |    |    | 43   |    |      |    |
| LQL44□-13 | 1/2"                   | 1/2                        | 27   | 28 | 30 | 51   | 35 | 33.1 | 21 |
| LQL44□-13 | 1/2"                   |                            | 27   |    |    | 52   |    |      |    |
| LQL55□-13 | 1/2"                   |                            | 27   |    |    | 52   |    |      |    |
| LQL55□-19 | 3/4"                   | 3/4                        | 33.5 | 32 | 36 | 58   | 43 | 40   | 26 |

Note 1) "A" dimensions are reference dimensions for Rc (NPT) threads after installation.



Class 2 and 3



Class 4 and 5

### Union elbow: LQE

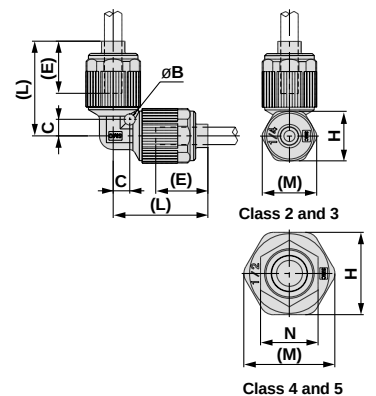


#### Metric sizes

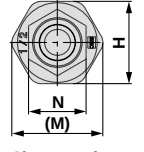
| Model    | Applicable tubing O.D. | B  | C  | E  | H  | L    | M    | N  |
|----------|------------------------|----|----|----|----|------|------|----|
| LQE20-04 | ø4                     | ø4 | 6  | 19 | 18 | 34.5 | 19.9 | —  |
| LQE20-06 | ø6                     | ø5 | 9  | 22 | 24 | 42.5 | 26.2 | —  |
| LQE30-06 | ø6                     |    | 9  |    |    | 43   |      |    |
| LQE30-08 | ø8                     |    | 9  |    |    | 43   |      |    |
| LQE30-10 | ø10                    | ø6 | 11 | 28 | 30 | 51   | 33.1 | 21 |
| LQE40-10 | ø10                    |    | 11 |    |    | 52   |      |    |
| LQE40-12 | ø12                    |    | 11 |    |    | 52   |      |    |
| LQE50-12 | ø12                    | ø7 | 14 | 32 | 36 | 58.5 | 40   | 26 |
| LQE50-19 | ø19                    |    | 14 |    |    | 59.5 |      |    |

#### Inch sizes

| Model    | Applicable tubing O.D. | B  | C  | E  | H  | L    | M    | N  |
|----------|------------------------|----|----|----|----|------|------|----|
| LQE20-03 | 1/8"                   | ø4 | 6  | 19 | 18 | 34.5 | 19.9 | —  |
| LQE20-05 | 3/16"                  |    | 6  |    |    | 34.5 |      |    |
| LQE20-07 | 1/4"                   |    | 6  |    |    | 34.5 |      |    |
| LQE30-07 | 1/4"                   | ø5 | 9  | 22 | 24 | 42.5 | 26.2 | —  |
| LQE30-11 | 3/8"                   |    | 9  |    |    | 43   |      |    |
| LQE40-11 | 3/8"                   |    | 9  |    |    | 43   |      |    |
| LQE40-13 | 1/2"                   | ø6 | 11 | 28 | 30 | 51   | 33.1 | 21 |
| LQE40-13 | 1/2"                   |    | 11 |    |    | 52   |      |    |
| LQE50-13 | 1/2"                   |    | 11 |    |    | 52   |      |    |
| LQE50-19 | 3/4"                   | ø7 | 14 | 32 | 36 | 58.5 | 40   | 26 |



Class 2 and 3



Class 4 and 5