

Push-in fitting, stainless steel NPQR

FESTO



## Push-in fitting, stainless steel NPQR

### Characteristics

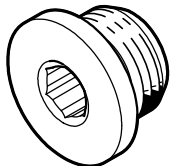
#### At a glance

Stainless steel fitting for use in areas subject to intensive cleaning.

- High corrosion and chemical resistance
- Very good temperature resistance
- Operating medium: compressed air, vacuum, water

#### Design

[B] Plug screw



[D] Straight



[H] Bulkhead



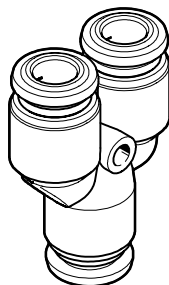
[L] L-shape



[T] T-shape



[Y] Y-shape



## Type code

|      |                 |  |
|------|-----------------|--|
| 001  | Series          |  |
| NPQR | Push-in fitting |  |
| 002  | Design          |  |
| B    | Plug screw      |  |
| D    | Straight        |  |
| H    | Bulkhead        |  |
| L    | L-shape         |  |
| T    | T-shape         |  |
| Y    | Y-shape         |  |
| 003  | Mounting method |  |
|      | Standard        |  |
| K    | Internal hex    |  |

|     |                         |  |
|-----|-------------------------|--|
| 004 | Pneumatic connection 1  |  |
| G12 | G1/2                    |  |
| G14 | G1/4                    |  |
| G18 | G1/8                    |  |
| G38 | G3/8                    |  |
| M5  | M5                      |  |
| M7  | M7                      |  |
| Q4  | Push-in connector 4 mm  |  |
| Q6  | Push-in connector 6 mm  |  |
| Q8  | Push-in connector 8 mm  |  |
| Q10 | Push-in connector 10 mm |  |
| Q12 | Push-in connector 12 mm |  |
| Q14 | Push-in connector 14 mm |  |
| Q16 | Push-in connector 16 mm |  |

|     |                           |  |
|-----|---------------------------|--|
| 005 | Pneumatic connection 2    |  |
|     | None                      |  |
| E   | Same size as connection 1 |  |
| Q4  | Push-in connector 4 mm    |  |
| Q6  | Push-in connector 6 mm    |  |
| Q8  | Push-in connector 8 mm    |  |
| Q10 | Push-in connector 10 mm   |  |
| Q12 | Push-in connector 12 mm   |  |
| Q14 | Push-in connector 14 mm   |  |
| Q16 | Push-in connector 16 mm   |  |

|     |                             |  |
|-----|-----------------------------|--|
| 006 | Packaging quantity [pieces] |  |
|     | Standard                    |  |

## Push-in fitting, stainless steel NPQR

### Datasheet

#### General technical data – Push-in fittings

|                                         |                     |                |                  |                  |                  |                  |
|-----------------------------------------|---------------------|----------------|------------------|------------------|------------------|------------------|
| Pneumatic connection, port 1            | Male thread M5      | Male thread M7 | Male thread G1/8 | Male thread G1/4 | Male thread G3/8 | Male thread G1/2 |
| Size                                    | Standard            |                |                  |                  |                  |                  |
| Design                                  | Push-pull principle |                |                  |                  |                  |                  |
| Mounting position                       | optional            |                |                  |                  |                  |                  |
| Type of seal on screwed plug            | Sealing ring        |                |                  |                  |                  |                  |
| Nominal torque <sup>1)</sup>            | 1 Nm                | 3 Nm           | 3 ... 6 Nm       | 7.5 Nm           | 9 Nm             |                  |
| Tolerance for nominal tightening torque | ± 20%               |                |                  |                  |                  |                  |
| Size of pack                            | 1                   |                |                  |                  |                  |                  |

1) Male thread G1/8: 6 Nm (exception NPQR-DK-G18-Q4: 3 Nm)

#### General technical data – Plug connectors

|                              |                                   |                                     |                                   |                                    |                                    |                                    |                                    |
|------------------------------|-----------------------------------|-------------------------------------|-----------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| Pneumatic connection, port 1 | For tubing outer diameter of 4 mm | For tubing outside diameter of 6 mm | For tubing outer diameter of 8 mm | For tubing outer diameter of 10 mm | For tubing outer diameter of 12 mm | For tubing outer diameter of 14 mm | For tubing outer diameter of 16 mm |
| Size                         | Standard                          |                                     |                                   |                                    |                                    |                                    |                                    |
| Design                       | Push-pull principle               |                                     |                                   |                                    |                                    |                                    |                                    |
| Mounting position            | optional                          |                                     |                                   |                                    |                                    |                                    |                                    |
| Size of pack                 | 1                                 |                                     |                                   |                                    |                                    |                                    |                                    |

#### Operating and environmental conditions

|                                              |                                                                     |
|----------------------------------------------|---------------------------------------------------------------------|
| Operating medium                             | Compressed air to ISO 8573-1:2010 [7:-:-], Water (liquid, ice-free) |
| Note on operating and pilot medium           | Lubricated operation possible                                       |
| Corrosion resistance class CRC <sup>1)</sup> | 4 - Very high corrosion stress                                      |
| Suitable for use with food                   | See declaration of conformity<br>NSF/ANSI 169                       |
| Certificate issuing authority                | NSF C0556009                                                        |

1) More information [www.festo.com/x/topic/crc](http://www.festo.com/x/topic/crc)

#### Operating and ambient conditions – For tubing O.D. 4 mm; 6 mm; 8 mm; 10 mm; 12 mm

|                                               |                                 |
|-----------------------------------------------|---------------------------------|
| Operating pressure complete temperature range | -0.95 ... 16 bar                |
| Note on operating pressure                    | Water: max. 0.7 MPa at 0 - 80°C |
| Ambient temperature                           | -20 ... 150°C                   |

#### Operating and ambient conditions – For tubing O.D. 14 mm; 16 mm

|                                               |                                 |
|-----------------------------------------------|---------------------------------|
| Operating pressure complete temperature range | -0.95 ... 12 bar                |
| Note on operating pressure                    | Water: max. 0.7 MPa at 0 - 80°C |
| Ambient temperature                           | -5 ... 150°C                    |

#### Operating and environmental conditions – NPQR-D-Q16-Q12

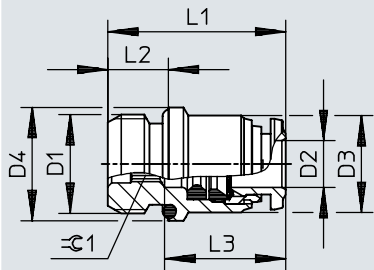
|                                               |                                 |
|-----------------------------------------------|---------------------------------|
| Operating pressure complete temperature range | -0.95 ... 12 bar                |
| Note on operating pressure                    | Water: max. 0.7 MPa at 0 - 80°C |
| Ambient temperature                           | -5 ... 150°C                    |

## Datasheet

| Materials                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Material housing                                   | High-alloy stainless steel                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Material release ring                              | High-alloy stainless steel                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Material tubing clamp component                    | High-alloy stainless steel                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Thrust ring material                               | PPSU                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Guard ring material                                | High-alloy stainless steel                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Material nut                                       | High-alloy stainless steel                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Material thread seal                               | FPM                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Material tubing seal                               | FPM                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Note on materials                                  | RoHS-compliant                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| LABS (PWS) conformity                              | VDMA24364-B2-L                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Suitability for the production of Li-ion batteries | Metals with more than 1% by mass of copper, zinc or nickel by mass are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils, Metals with more than 1% by mass of copper, zinc or nickel are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils |
| Cleanroom class                                    | Class 4 according to ISO 14644-1, Element installed statically, no meaningful evaluation possible according to ISO 14644-1                                                                                                                                                                                                                                                                                                                                   |

Dimensions

Dimensions – Push-in fitting NPQR-DK-G18/G14/G38/G12 Download CAD data → [www.festo.com](http://www.festo.com)



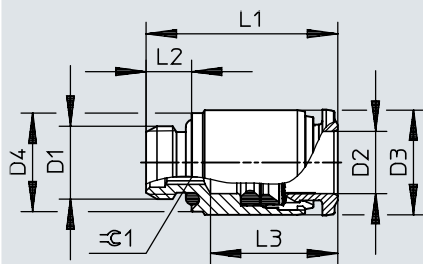
|                 | D1   | D2<br>ø | D3<br>ø | D4<br>ø | L1   | L2 | L3 <sup>1)</sup> | ≅G1 |
|-----------------|------|---------|---------|---------|------|----|------------------|-----|
| NPQR-DK-G18-Q4  | G1/8 | 4       | 10      | 12,9    | 19,5 | 6  | 14               | 2,5 |
| NPQR-DK-G14-Q6  | G1/4 | 6       | 12,8    | 15      | 23,5 | 8  | 16               | 4   |
| NPQR-DK-G38-Q8  | G3/8 | 8       | 14      | 20      | 22   | 9  | 16,8             | 6   |
| NPQR-DK-G38-Q10 | G3/8 | 10      | 17      | 20      | 26,5 | 9  | 19,35            | 7   |
| NPQR-DK-G12-Q12 | G1/2 | 12      | 20      | 24,8    | 30,5 | 10 | 22,35            | 8   |
| NPQR-DK-G12-Q14 | G1/2 | 14      | 21,5    | 24,8    | 29,5 | 10 | 21,5             | 10  |

1) Tubing insertion depth

## Dimensions

Dimensions – Push-in fitting NPQR-DK-M5/M7/G18/G14

Download CAD data → [www.festo.com](http://www.festo.com)

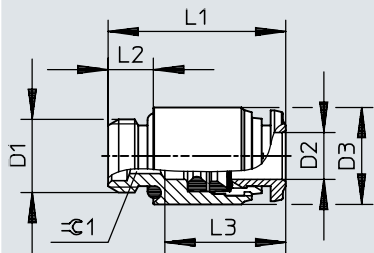


|                 | D1   | D2<br>Ø | D3<br>Ø | D4<br>Ø | L1   | L2 | L3 <sup>1)</sup> | ≅1  |
|-----------------|------|---------|---------|---------|------|----|------------------|-----|
| NPQR-DK-M5-Q4   | M5   | 4       | 9,8     | 8       | 19,5 | 4  | 14               | 2   |
| NPQR-DK-M7-Q4   | M7   | 4       | 9,8     | 9,4     | 21   | 5  | 14               | 2,5 |
| NPQR-DK-G18-Q8  | G1/8 | 8       | 13,8    | 13      | 25,5 | 6  | 16,8             | 5   |
| NPQR-DK-G18-Q10 | G1/8 | 10      | 17      | 13      | 28,5 | 6  | 19,35            | 5   |
| NPQR-DK-G14-Q10 | G1/4 | 10      | 16,8    | 16      | 29,5 | 8  | 19,35            | 6   |

1) Tubing insertion depth

Dimensions

Dimensions – Push-in fitting NPQR-DK-M5/M7/G18/G14/G38/G12 Download CAD data → [www.festo.com](http://www.festo.com)



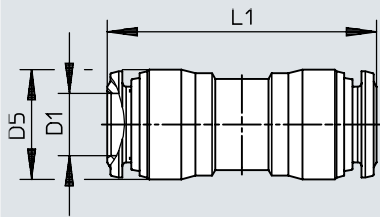
|                 | D1   | D2<br>ø | D3<br>ø | D4<br>ø | L1   | L2 | L3 <sup>1)</sup> | ⌀1  |
|-----------------|------|---------|---------|---------|------|----|------------------|-----|
| NPQR-DK-M5-Q6   | M5   | 6       | 10      | –       | 20,1 | 4  | 13,5             | 2,5 |
| NPQR-DK-M7-Q6   | M7   | 6       | 10      | –       | 21   | 5  | 13,5             | 4   |
| NPQR-DK-G18-Q6  | G1/8 | 6       | 12,8    | –       | 23,5 | 6  | 16               | 4   |
| NPQR-DK-G14-Q8  | G1/4 | 8       | 15      | –       | 23,5 | 8  | 16,8             | 6   |
| NPQR-DK-G38-Q12 | G3/8 | 12      | 20      | –       | 33   | 9  | 22,35            | 8   |
| NPQR-DK-G12-Q16 | G1/2 | 16      | 24      | 24,8    | 36   | 10 | 23,5             | 12  |

1) Tubing insertion depth

## Dimensions

Dimensions – Push-in connector NPQR-D

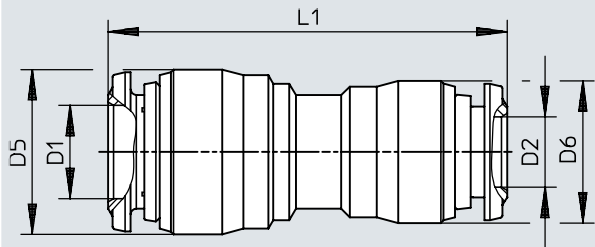
Download CAD data → [www.festo.com](http://www.festo.com)



|              | D1<br>ø | D5<br>ø | L1   |
|--------------|---------|---------|------|
| NPQR-D-Q4-E  | 4       | 10,3    | 30   |
| NPQR-D-Q6-E  | 6       | 12,5    | 34   |
| NPQR-D-Q8-E  | 8       | 14,5    | 35,5 |
| NPQR-D-Q10-E | 10      | 17,5    | 41   |
| NPQR-D-Q12-E | 12      | 20,5    | 47   |
| NPQR-D-Q14-E | 14      | 21,5    | 45   |
| NPQR-D-Q16-E | 16      | 24      | 53,5 |

Dimensions

Dimensions – Push-in connector NPQR-D, reducing Download CAD data → [www.festo.com](http://www.festo.com)

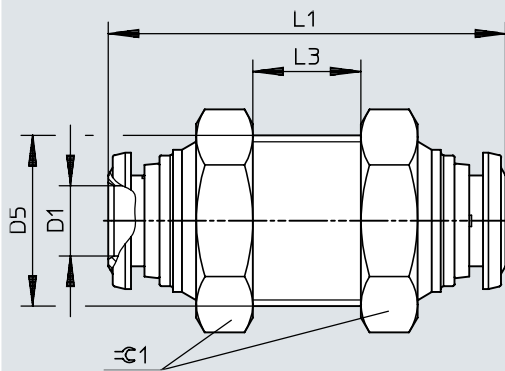


|                | D1<br>ø | D2<br>ø | D5<br>ø | D6<br>ø | L1   |
|----------------|---------|---------|---------|---------|------|
| NPQR-D-Q6-Q4   | 6       | 4       | 12,5    | 10,3    | 32,1 |
| NPQR-D-Q8-Q6   | 8       | 6       | 14,5    | 12,5    | 35   |
| NPQR-D-Q10-Q8  | 10      | 8       | 17,5    | 14,5    | 38,5 |
| NPQR-D-Q12-Q10 | 12      | 10      | 20,5    | 17,5    | 44   |
| NPQR-D-Q16-Q12 | 16      | 12      | 24      | 20,5    | 52,5 |

## Dimensions

Dimensions – Push-in bulkhead connector NPQR-H

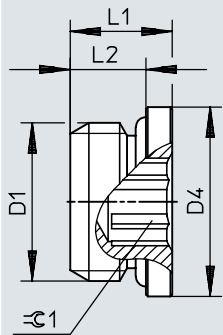
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|              | D1<br>ø | D5      | L1   | L3<br>max. | ⌀1 |
|--------------|---------|---------|------|------------|----|
| NPQR-H-Q4-E  | 4       | M12x1   | 31   | 7          | 17 |
| NPQR-H-Q6-E  | 6       | M14x1   | 35   | 9,5        | 17 |
| NPQR-H-Q8-E  | 8       | M16x1   | 36,6 | 10,5       | 19 |
| NPQR-H-Q10-E | 10      | M20x1   | 42,1 | 13,3       | 24 |
| NPQR-H-Q12-E | 12      | M22x1   | 48   | 12,5       | 26 |
| NPQR-H-Q16-E | 16      | M27x1,5 | 53,5 | 10,4       | 32 |

Dimensions

Dimensions – Plug screw NPQR-BK Download CAD data → [www.festo.com](http://www.festo.com)

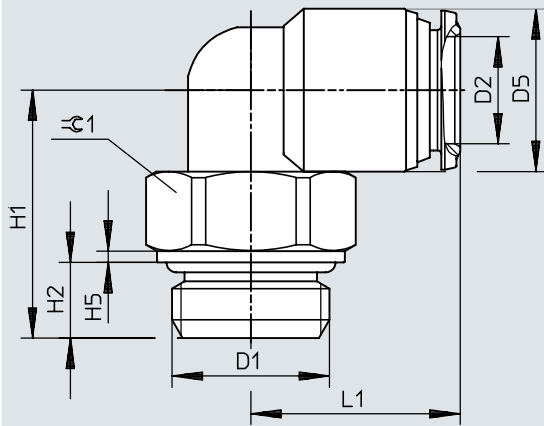


|             | D1   | D4<br>ø | L1   | L2 | 1  |
|-------------|------|---------|------|----|----|
| NPQR-BK-M5  | M5   | 8       | 6    | 4  | 2  |
| NPQR-BK-M7  | M7   | 9,5     | 7,5  | 5  | 3  |
| NPQR-BK-G18 | G1/8 | 14      | 8,5  | 6  | 5  |
| NPQR-BK-G14 | G1/4 | 18      | 11   | 8  | 6  |
| NPQR-BK-G38 | G3/8 | 20      | 12,5 | 9  | 8  |
| NPQR-BK-G12 | G1/2 | 25      | 13,5 | 10 | 10 |

## Dimensions

Dimensions – Push-in L-fitting NPQR-L

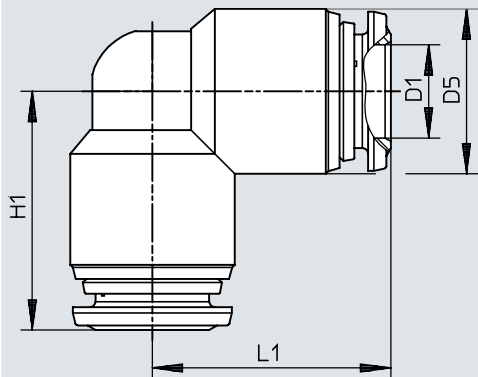
Download CAD data → [www.festo.com](http://www.festo.com)



|                | D1   | D2<br>ø | D5<br>ø | H1   | H2 | H5  | L1   | $\varnothing G1$ |
|----------------|------|---------|---------|------|----|-----|------|------------------|
| NPQR-L-M5-Q4   | M5   | 4       | 10      | 16   | 4  | 3   | 15,5 | 8                |
| NPQR-L-M5-Q6   |      | 6       | 12,5    | 17,5 | 4  | 3   | 18   | 8                |
| NPQR-L-G18-Q4  | G1/8 | 4       | 10      | 16   | 6  | 1   | 15,5 | 13               |
| NPQR-L-G18-Q6  |      | 6       | 12,5    | 17,5 | 6  | 1   | 18   | 13               |
| NPQR-L-G18-Q8  |      | 8       | 14,5    | 23   | 6  | 1   | 20   | 13               |
| NPQR-L-G14-Q6  | G1/4 | 6       | 12,5    | 20   | 8  | 1   | 18   | 15               |
| NPQR-L-G14-Q8  |      | 8       | 14,5    | 21   | 8  | 1   | 20   | 15               |
| NPQR-L-G14-Q10 |      | 10      | 17      | 27,5 | 8  | 0,9 | 23,5 | 15               |
| NPQR-L-G38-Q10 | G3/8 | 10      | 17      | 25   | 9  | 1,5 | 23,5 | 20               |
| NPQR-L-G38-Q12 |      | 12      | 20,5    | 30,5 | 9  | 1,5 | 27,5 | 20               |
| NPQR-L-G12-Q12 | G1/2 | 12      | 20,5    | 28,5 | 10 | 1,5 | 27,5 | 25               |
| NPQR-L-G12-Q14 |      | 14      | 21,5    | 33   | 10 | 1,5 | 27,5 | 25               |
| NPQR-L-G12-Q16 |      | 16      | 24      | 36,5 | 10 | 1,5 | 33   | 25               |

Dimensions

Dimensions – Push-in L-connector NPQR-L Download CAD data → [www.festo.com](http://www.festo.com)

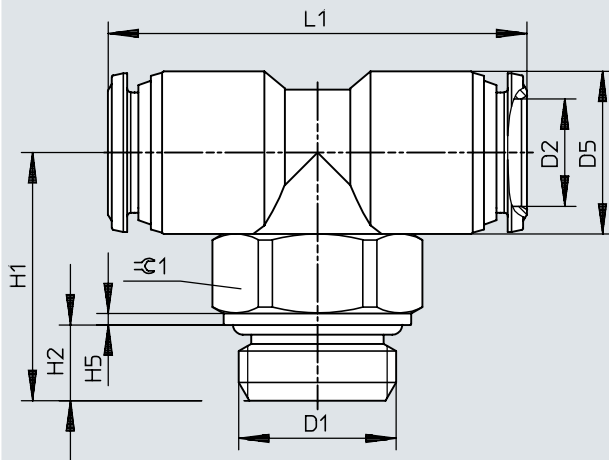


|              | D1<br>ø | D5<br>ø | H1   | L1   |
|--------------|---------|---------|------|------|
| NPQR-L-Q4-E  | 4       | 10      | 16   | 16   |
| NPQR-L-Q6-E  | 6       | 12,5    | 19,5 | 19,5 |
| NPQR-L-Q8-E  | 8       | 14,5    | 21   | 21   |
| NPQR-L-Q10-E | 10      | 17      | 24,5 | 24,5 |
| NPQR-L-Q12-E | 12      | 20,5    | 29   | 29   |
| NPQR-L-Q14-E | 14      | 21,5    | 28,5 | 28,5 |
| NPQR-L-Q16-E | 16      | 24      | 33   | 33   |

## Dimensions

Dimensions – Push-in T-fitting NPQR-T

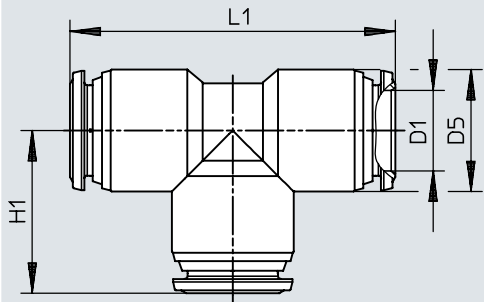
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|                | D1   | D2<br>Ø | D5<br>Ø | H1   | H2 | H5  | L1   | ≅1 |
|----------------|------|---------|---------|------|----|-----|------|----|
| NPQR-T-M5-Q4   | M5   | 4       | 10      | 16   | 4  | 3   | 30,5 | 8  |
| NPQR-T-M5-Q6   |      | 6       | 12,5    | 17,5 | 4  | 3   | 36   | 8  |
| NPQR-T-G18-Q6  | G1/8 | 6       | 12,5    | 17,5 | 6  | 1   | 36   | 13 |
| NPQR-T-G18-Q8  |      | 8       | 14,5    | 23   | 6  | 1   | 40   | 13 |
| NPQR-T-G14-Q8  | G1/4 | 8       | 14,5    | 21   | 8  | 1   | 40   | 15 |
| NPQR-T-G14-Q10 |      | 10      | 17      | 27,5 | 8  | 1   | 47   | 15 |
| NPQR-T-G38-Q10 | G3/8 | 10      | 17      | 25   | 9  | 1,5 | 47   | 20 |
| NPQR-T-G38-Q12 |      | 12      | 20,5    | 30,5 | 9  | 1,5 | 55   | 20 |
| NPQR-T-G12-Q12 | G1/2 | 12      | 20,5    | 28,5 | 10 | 1,5 | 55   | 25 |
| NPQR-T-G12-Q16 |      | 16      | 24      | 36,5 | 10 | 1,5 | 65,5 | 25 |

Dimensions

Dimensions – Push-in T-connector NPQR-T Download CAD data → [www.festo.com](http://www.festo.com)

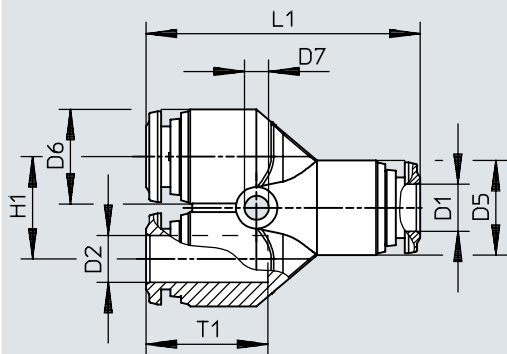


|              | D1<br>Ø | D5<br>Ø | H1   | L1   |
|--------------|---------|---------|------|------|
| NPQR-T-Q4-E  | 4       | 10      | 16   | 32   |
| NPQR-T-Q6-E  | 6       | 12,5    | 19,5 | 39,5 |
| NPQR-T-Q8-E  | 8       | 14,5    | 21   | 42   |
| NPQR-T-Q10-E | 10      | 17      | 24,5 | 49   |
| NPQR-T-Q12-E | 12      | 20,5    | 29   | 58   |
| NPQR-T-Q14-E | 14      | 21,5    | 28,5 | 57,5 |
| NPQR-T-Q16-E | 16      | 24      | 32,8 | 65,5 |

## Dimensions

### Dimensions – Push-in Y-connector NPQR-Y

Download CAD data → [www.festo.com](http://www.festo.com)



|              | D1<br>Ø | D2<br>Ø | D5<br>Ø | D6<br>Ø | D7<br>Ø | H1   | L1   | T1 <sup>1)</sup> |
|--------------|---------|---------|---------|---------|---------|------|------|------------------|
| NPQR-Y-Q4-E  | 4       | 4       | 10      | 10      | 3,2     | 11   | 31   | 14               |
| NPQR-Y-Q6-E  | 6       | 6       | 12,5    | 12,5    | 3,2     | 13,5 | 36   | 16               |
| NPQR-Y-Q8-E  | 8       | 8       | 14,5    | 14,5    | 3,2     | 15,5 | 40   | 17               |
| NPQR-Y-Q10-E | 10      | 10      | 17      | 17      | 4,2     | 18,5 | 47,5 | 19,5             |
| NPQR-Y-Q12-E | 12      | 12      | 20,5    | 20,5    | 4,2     | 21,5 | 56,2 | 22,5             |
| NPQR-Y-Q16-E | 16      | 16      | 24      | 24      | 5,2     | 25   | 62   | 23,5             |

1) Tubing insertion depth

## Ordering data

| Push-in fitting NPQR-DK                                                          |                              |                                      |              |                               |          |                 |
|----------------------------------------------------------------------------------|------------------------------|--------------------------------------|--------------|-------------------------------|----------|-----------------|
|                                                                                  | Pneumatic connection, port 1 | Pneumatic connection, port 2         | Nominal size | Type of mounting              | Part no. | Type            |
|  | Male thread M5               | For tubing outside diameter of 4 mm  | 2.1 mm       | Internal hexagon, size 2 mm   | 8085657  | NPQR-DK-M5-Q4   |
|                                                                                  |                              | For tubing outside diameter of 6 mm  | 2.6 mm       | Internal hexagon, size 2.5 mm | 8085659  | NPQR-DK-M5-Q6   |
|                                                                                  | Male thread M7               | For tubing outside diameter of 4 mm  |              |                               | 8085658  | NPQR-DK-M7-Q4   |
|                                                                                  |                              | For tubing outside diameter of 6 mm  | 4.2 mm       | Internal hexagon, size 4 mm   | 8085660  | NPQR-DK-M7-Q6   |
|                                                                                  | Male thread G1/8             | For tubing outside diameter of 4 mm  | 2.6 mm       | Internal hexagon, size 2.5 mm | 8085661  | NPQR-DK-G18-Q4  |
|                                                                                  |                              | For tubing outside diameter of 6 mm  | 4.2 mm       | Internal hexagon, size 4 mm   | 8085662  | NPQR-DK-G18-Q6  |
|                                                                                  |                              | For tubing outside diameter of 8 mm  | 5.3 mm       | Internal hexagon, size 5 mm   | 8085663  | NPQR-DK-G18-Q8  |
|                                                                                  |                              | For tubing outside diameter of 10 mm |              |                               | 8087695  | NPQR-DK-G18-Q10 |
|                                                                                  | Male thread G1/4             | For tubing outside diameter of 6 mm  | 4.2 mm       | Internal hexagon, size 4 mm   | 8085664  | NPQR-DK-G14-Q6  |
|                                                                                  |                              | For tubing outside diameter of 8 mm  | 6.3 mm       | Internal hexagon, size 6 mm   | 8085665  | NPQR-DK-G14-Q8  |
|                                                                                  |                              | For tubing outside diameter of 10 mm |              |                               | 8085666  | NPQR-DK-G14-Q10 |
|                                                                                  | Male thread G3/8             | For tubing outside diameter of 8 mm  |              |                               | 8086953  | NPQR-DK-G38-Q8  |
|                                                                                  |                              | For tubing outside diameter of 10 mm | 7.3 mm       | Internal hexagon, A/F 7 mm    | 8085667  | NPQR-DK-G38-Q10 |
|                                                                                  |                              | For tubing outer diameter of 12 mm   | 8.4 mm       | Internal hexagon, size 8 mm   | 8085668  | NPQR-DK-G38-Q12 |
|                                                                                  | Male thread G1/2             | For tubing outside diameter of 14 mm |              |                               | 8085669  | NPQR-DK-G12-Q12 |
|                                                                                  |                              | For tubing outside diameter of 14 mm | 11.6 mm      | Internal hexagon, size 10 mm  | 8085670  | NPQR-DK-G12-Q14 |
|                                                                                  |                              | For tubing outside diameter of 16 mm | 12.6 mm      | Internal hexagon, size 12 mm  | 8085671  | NPQR-DK-G12-Q16 |

| Push-in connector NPQR-D                                                           |                                   |                                     |              |                |          |             |
|------------------------------------------------------------------------------------|-----------------------------------|-------------------------------------|--------------|----------------|----------|-------------|
|                                                                                    | Pneumatic connection, port 1      | Pneumatic connection, port 2        | Nominal size | Product weight | Part no. | Type        |
|  | For tubing outer diameter of 4 mm | For tubing outside diameter of 4 mm | 3 mm         | 9.8 g          | 8085697  | NPQR-D-Q4-E |

## Ordering data

| Push-in connector NPQR-D                                                          |                                      |                                      |              |                |          |              |
|-----------------------------------------------------------------------------------|--------------------------------------|--------------------------------------|--------------|----------------|----------|--------------|
|                                                                                   | Pneumatic connection, port 1         | Pneumatic connection, port 2         | Nominal size | Product weight | Part no. | Type         |
|  | For tubing outside diameter of 6 mm  | For tubing outside diameter of 6 mm  | 5 mm         | 15 g           | 8085698  | NPQR-D-Q6-E  |
|                                                                                   | For tubing outside diameter of 8 mm  | For tubing outside diameter of 8 mm  | 7 mm         | 19.4 g         | 8085699  | NPQR-D-Q8-E  |
|                                                                                   | For tubing outside diameter of 10 mm | For tubing outside diameter of 10 mm | 9 mm         | 32.4 g         | 8085700  | NPQR-D-Q10-E |
|                                                                                   | For tubing outside diameter of 12 mm | For tubing outside diameter of 12 mm | 11 mm        | 49.1 g         | 8085701  | NPQR-D-Q12-E |
|                                                                                   | For tubing outside diameter of 14 mm | For tubing outside diameter of 14 mm | 13 mm        | 47.8 g         | 8085702  | NPQR-D-Q14-E |
|                                                                                   | For tubing outside diameter of 16 mm | For tubing outside diameter of 16 mm | 15 mm        | 65.6 g         | 8085703  | NPQR-D-Q16-E |

| Push-in connector NPQR-D (reducing)                                                 |                                      |                                      |              |                |          |                |
|-------------------------------------------------------------------------------------|--------------------------------------|--------------------------------------|--------------|----------------|----------|----------------|
|                                                                                     | Pneumatic connection, port 1         | Pneumatic connection, port 2         | Nominal size | Product weight | Part no. | Type           |
|  | For tubing outside diameter of 6 mm  | For tubing outside diameter of 4 mm  | 3 mm         | 12 g           | 8085704  | NPQR-D-Q6-Q4   |
|                                                                                     | For tubing outside diameter of 8 mm  | For tubing outside diameter of 6 mm  | 5 mm         | 16.7 g         | 8085705  | NPQR-D-Q8-Q6   |
|                                                                                     | For tubing outside diameter of 10 mm | For tubing outside diameter of 8 mm  | 7 mm         | 25.1 g         | 8085706  | NPQR-D-Q10-Q8  |
|                                                                                     | For tubing outside diameter of 12 mm | For tubing outside diameter of 10 mm | 9 mm         | 39.6 g         | 8085707  | NPQR-D-Q12-Q10 |
|                                                                                     | For tubing outside diameter of 16 mm | For tubing outside diameter of 12 mm | 11 mm        | 63.7 g         | 8085708  | NPQR-D-Q16-Q12 |

| Push-in bulkhead connector NPQR-H                                                   |                                      |                                      |              |                |          |              |
|-------------------------------------------------------------------------------------|--------------------------------------|--------------------------------------|--------------|----------------|----------|--------------|
|                                                                                     | Pneumatic connection, port 1         | Pneumatic connection, port 2         | Nominal size | Product weight | Part no. | Type         |
|  | For tubing outside diameter of 4 mm  | For tubing outside diameter of 4 mm  | 3 mm         | 24.3 g         | 8085729  | NPQR-H-Q4-E  |
|                                                                                     | For tubing outside diameter of 6 mm  | For tubing outside diameter of 6 mm  | 5 mm         | 28.3 g         | 8085730  | NPQR-H-Q6-E  |
|                                                                                     | For tubing outside diameter of 8 mm  | For tubing outside diameter of 8 mm  | 7 mm         | 37.1 g         | 8085731  | NPQR-H-Q8-E  |
|                                                                                     | For tubing outside diameter of 10 mm | For tubing outside diameter of 10 mm | 9 mm         | 66.8 g         | 8085732  | NPQR-H-Q10-E |
|                                                                                     | For tubing outside diameter of 12 mm | For tubing outside diameter of 12 mm | 11 mm        | 88.1 g         | 8085733  | NPQR-H-Q12-E |
|                                                                                     | For tubing outside diameter of 16 mm | For tubing outside diameter of 16 mm | 15 mm        | 153.6 g        | 8099104  | NPQR-H-Q16-E |

## Ordering data

| Plug screw NPQR-BK                                                               |                              |                              |                |          |             |
|----------------------------------------------------------------------------------|------------------------------|------------------------------|----------------|----------|-------------|
|                                                                                  | Pneumatic connection, port 1 | Type of mounting             | Product weight | Part no. | Type        |
|  | Male thread M5               |                              | 3.2 g          | 8104803  | NPQR-BK-M5  |
|                                                                                  | Male thread M7               | Internal hexagon, size 3 mm  | 2.1 g          | 8085672  | NPQR-BK-M7  |
|                                                                                  | Male thread G1/8             | Internal hexagon, size 5 mm  | 4 g            | 8085673  | NPQR-BK-G18 |
|                                                                                  | Male thread G1/4             | Internal hexagon, size 6 mm  | 11 g           | 8085674  | NPQR-BK-G14 |
|                                                                                  | Male thread G3/8             | Internal hexagon, size 8 mm  | 17 g           | 8085675  | NPQR-BK-G38 |
|                                                                                  | Male thread G1/2             | Internal hexagon, size 10 mm | 29 g           | 8085676  | NPQR-BK-G12 |

| Push-in L-fitting NPQR-L                                                         |                              |                                      |              |                             |          |                |
|----------------------------------------------------------------------------------|------------------------------|--------------------------------------|--------------|-----------------------------|----------|----------------|
|                                                                                  | Pneumatic connection, port 1 | Pneumatic connection, port 2         | Nominal size | Type of mounting            | Part no. | Type           |
|  | Male thread M5               | For tubing outside diameter of 4 mm  | 2 mm         | External hexagon, A/F 8 mm  | 8085679  | NPQR-L-M5-Q4   |
|                                                                                  |                              | For tubing outside diameter of 6 mm  |              |                             | 8098626  | NPQR-L-M5-Q6   |
|                                                                                  | Male thread G1/8             | For tubing outside diameter of 4 mm  | 4 mm         | External hex, A/F 13 mm     | 8085680  | NPQR-L-G18-Q4  |
|                                                                                  |                              | For tubing outside diameter of 6 mm  |              | External hexagon, A/F 13 mm | 8085681  | NPQR-L-G18-Q6  |
|                                                                                  |                              | For tubing outside diameter of 8 mm  |              |                             | 8085682  | NPQR-L-G18-Q8  |
|                                                                                  | Male thread G1/4             | For tubing outside diameter of 6 mm  | 6 mm         | External hexagon, A/F 15 mm | 8085683  | NPQR-L-G14-Q6  |
|                                                                                  |                              | For tubing outside diameter of 8 mm  |              |                             | 8085684  | NPQR-L-G14-Q8  |
|                                                                                  |                              | For tubing outside diameter of 10 mm |              |                             | 8085685  | NPQR-L-G14-Q10 |
|                                                                                  | Male thread G3/8             | For tubing outside diameter of 12 mm | 10 mm        | External hexagon, A/F 20 mm | 8085686  | NPQR-L-G38-Q10 |
|                                                                                  |                              | For tubing outside diameter of 14 mm |              |                             | 8085687  | NPQR-L-G38-Q12 |
|                                                                                  | Male thread G1/2             | For tubing outside diameter of 16 mm | 12 mm        | External hexagon, A/F 25 mm | 8085688  | NPQR-L-G12-Q12 |
|                                                                                  |                              | For tubing outside diameter of 18 mm |              |                             | 8085689  | NPQR-L-G12-Q14 |
|                                                                                  |                              | For tubing outside diameter of 20 mm |              |                             | 8085690  | NPQR-L-G12-Q16 |

| Push-in L-connector NPQR-L                                                         |                                     |                                     |              |                |          |             |
|------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------|--------------|----------------|----------|-------------|
|                                                                                    | Pneumatic connection, port 1        | Pneumatic connection, port 2        | Nominal size | Product weight | Part no. | Type        |
|  | For tubing outside diameter of 4 mm | For tubing outside diameter of 4 mm | 3 mm         | 7.8 g          | 8085709  | NPQR-L-Q4-E |

## Ordering data

| Push-in L-connector NPQR-L                                                        |                                      |                                      |              |                |          |              |
|-----------------------------------------------------------------------------------|--------------------------------------|--------------------------------------|--------------|----------------|----------|--------------|
|                                                                                   | Pneumatic connection, port 1         | Pneumatic connection, port 2         | Nominal size | Product weight | Part no. | Type         |
|  | For tubing outside diameter of 6 mm  | For tubing outside diameter of 6 mm  | 5 mm         | 14.9 g         | 8085710  | NPQR-L-Q6-E  |
|                                                                                   | For tubing outside diameter of 8 mm  | For tubing outside diameter of 8 mm  | 7 mm         | 20.4 g         | 8085711  | NPQR-L-Q8-E  |
|                                                                                   | For tubing outside diameter of 10 mm | For tubing outside diameter of 10 mm | 9 mm         | 29.9 g         | 8085712  | NPQR-L-Q10-E |
|                                                                                   | For tubing outside diameter of 12 mm | For tubing outside diameter of 12 mm | 11 mm        | 51.8 g         | 8085713  | NPQR-L-Q12-E |
|                                                                                   | For tubing outside diameter of 14 mm | For tubing outside diameter of 14 mm | 14 mm        | 60.6 g         | 8085714  | NPQR-L-Q14-E |
|                                                                                   | For tubing outside diameter of 16 mm | For tubing outside diameter of 16 mm | 16 mm        | 83.8 g         | 8085715  | NPQR-L-Q16-E |

| Push-in T-fitting NPQR-T                                                            |                              |                                      |              |                             |          |                |
|-------------------------------------------------------------------------------------|------------------------------|--------------------------------------|--------------|-----------------------------|----------|----------------|
|                                                                                     | Pneumatic connection, port 1 | Pneumatic connection, port 2         | Nominal size | Type of mounting            | Part no. | Type           |
|  | Male thread M5               | For tubing outside diameter of 4 mm  | 2 mm         | External hexagon, A/F 8 mm  | 8085691  | NPQR-T-M5-Q4   |
|                                                                                     |                              | For tubing outside diameter of 6 mm  | 2.2 mm       |                             | 8099103  | NPQR-T-M5-Q6   |
|                                                                                     | Male thread G1/8             | For tubing outside diameter of 4 mm  | 4 mm         | External hexagon, A/F 13 mm | 8085692  | NPQR-T-G18-Q6  |
|                                                                                     |                              | For tubing outside diameter of 6 mm  | 6 mm         |                             | 8085693  | NPQR-T-G18-Q8  |
|                                                                                     | Male thread G1/4             | For tubing outside diameter of 8 mm  | 8 mm         | External hexagon, A/F 15 mm | 8085694  | NPQR-T-G14-Q8  |
|                                                                                     |                              | For tubing outside diameter of 10 mm | 10 mm        |                             | 8099100  | NPQR-T-G14-Q10 |
|                                                                                     | Male thread G3/8             | For tubing outside diameter of 12 mm | 12 mm        | External hexagon, A/F 20 mm | 8085695  | NPQR-T-G38-Q10 |
|                                                                                     |                              | For tubing outside diameter of 14 mm | 14 mm        |                             | 8099101  | NPQR-T-G38-Q12 |
|                                                                                     | Male thread G1/2             | For tubing outside diameter of 16 mm | 16 mm        | External hexagon, A/F 25 mm | 8099102  | NPQR-T-G12-Q12 |
|                                                                                     |                              |                                      |              |                             | 8085696  | NPQR-T-G12-Q16 |

| Push-in T-connector NPQR-T                                                          |                                      |                                      |              |                |          |              |
|-------------------------------------------------------------------------------------|--------------------------------------|--------------------------------------|--------------|----------------|----------|--------------|
|                                                                                     | Pneumatic connection, port 1         | Pneumatic connection, port 2         | Nominal size | Product weight | Part no. | Type         |
|  | For tubing outside diameter of 4 mm  | For tubing outside diameter of 4 mm  | 3 mm         | 10 g           | 8085716  | NPQR-T-Q4-E  |
|                                                                                     | For tubing outside diameter of 6 mm  | For tubing outside diameter of 6 mm  | 5 mm         | 19.2 g         | 8085717  | NPQR-T-Q6-E  |
|                                                                                     | For tubing outside diameter of 8 mm  | For tubing outside diameter of 8 mm  | 7 mm         | 26.1 g         | 8085718  | NPQR-T-Q8-E  |
|                                                                                     | For tubing outside diameter of 10 mm | For tubing outside diameter of 10 mm | 9 mm         | 37.7 g         | 8085719  | NPQR-T-Q10-E |

## Push-in fitting, stainless steel NPQR

### Ordering data

| Push-in T-connector NPQR-T                                                       |                                    |                                      |              |                |          |              |
|----------------------------------------------------------------------------------|------------------------------------|--------------------------------------|--------------|----------------|----------|--------------|
|                                                                                  | Pneumatic connection, port 1       | Pneumatic connection, port 2         | Nominal size | Product weight | Part no. | Type         |
|  | For tubing outer diameter of 12 mm | For tubing outer diameter of 12 mm   | 11 mm        | 66.7 g         | 8085720  | NPQR-T-Q12-E |
|                                                                                  | For tubing outer diameter of 14 mm | For tubing outside diameter of 14 mm | 14 mm        | 85 g           | 8085721  | NPQR-T-Q14-E |
|                                                                                  | For tubing outer diameter of 16 mm | For tubing outside diameter of 16 mm | 16 mm        | 114.7 g        | 8085722  | NPQR-T-Q16-E |

| Push-in Y-connector NPQR-Y                                                       |                                     |                                      |                |          |              |
|----------------------------------------------------------------------------------|-------------------------------------|--------------------------------------|----------------|----------|--------------|
|                                                                                  | Pneumatic connection, port 1        | Pneumatic connection, port 2         | Product weight | Part no. | Type         |
|  | For tubing outer diameter of 4 mm   | For tubing outside diameter of 4 mm  | 18.2 g         | 8085723  | NPQR-Y-Q4-E  |
|                                                                                  | For tubing outside diameter of 6 mm | For tubing outside diameter of 6 mm  | 30.6 g         | 8085724  | NPQR-Y-Q6-E  |
|                                                                                  | For tubing outer diameter of 8 mm   | For tubing outside diameter of 8 mm  | 37.8 g         | 8085725  | NPQR-Y-Q8-E  |
|                                                                                  | For tubing outer diameter of 10 mm  | For tubing outside diameter of 10 mm | 65.2 g         | 8085726  | NPQR-Y-Q10-E |
|                                                                                  | For tubing outer diameter of 12 mm  | For tubing outer diameter of 12 mm   | 106.4 g        | 8085727  | NPQR-Y-Q12-E |
|                                                                                  | For tubing outer diameter of 16 mm  | For tubing outside diameter of 16 mm | 140.9 g        | 8085728  | NPQR-Y-Q16-E |