

## Push-in fittings NPQE

**FESTO**



## Characteristics

### Application



Choosing the right fitting is effortless thanks to a system that includes well over 1000 types of standard and function fittings. Festo offers a secure solution for every connection.

### Summary of tubing/fitting combinations

| Applications                                     | Fitting | Tubing     | Description                                                                                                                                                                                                                           |
|--------------------------------------------------|---------|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standard                                         | QS      | PUN-H      | Maximum flexibility in standard applications thanks to an extremely wide range of options for combining the different types.                                                                                                          |
|                                                  | NPQE    | PUN-H      | Low-cost and versatile combination for standard applications                                                                                                                                                                          |
|                                                  | QS      | PAN        | Meets all requirements, even for standard applications with increased pressure and temperature ranges.                                                                                                                                |
|                                                  | QS      | PEN        | Suitable for a wide range of tasks and attractively priced. Flexible thanks to high levels of resistance, easy to install thanks to optimised bending radii. High level of abrasion resistance in dynamic applications.               |
| High pressures                                   | NPQM    | PAN-MF     | Meets DIN standard 73378: ideal for use in mobile pneumatics. Suitable for increased temperature ranges combined with high pressure ranges.                                                                                           |
|                                                  | NPQH    | PAN-R      | Powerful in pressure ranges up to 20 bar, for example in applications with the pressure booster DPA.                                                                                                                                  |
| Resistant to chemicals and hydrolysis, food-safe | NPQP    | PLN        | Resistant to cleaning agents, FDA-compliant and economical. Can be used instead of the combination with stainless steel fittings.                                                                                                     |
|                                                  | NPKA    | PUN-H      | Hydrolysis resistant and suitable for water applications. Combination suitable for use in clean rooms, FDA-compliant and corrosion-resistant as it is made of 100% polymer. Very easy to install thanks to the "one click principle". |
|                                                  | NPQH    | PFAN/PTFEN | For high temperatures up to 150°C. Food-safe, FDA-compliant and resistant to cleaning agents.                                                                                                                                         |
|                                                  | NPCK    | PFAN/PTFEN | Easy to clean thanks to the edge-free design of the union nut. Maximum resistance to corrosion (CRC 4) and FDA-compliant. Suitable for a wide range of media.                                                                         |
|                                                  | CRQS    | PFAN/PTFEN | Maximum resistance to corrosion (CRC 4) and to aggressive acids and alkalis.                                                                                                                                                          |
| Resistant to chemicals and hydrolysis            | NPQR    | PFAN/PTFEN | Optimised design, fewer edges where dirt can collect – all at an attractive price. For high temperatures up to 150°C. Pressure range up to 16 bar. Highest level of corrosion resistance (CRC 4).                                     |
| Antistatic                                       | NPQM    | PUN-CM     | Anti-static tubing plus solid metal fitting: maximum protection for electrical and electronic components.                                                                                                                             |
| Flame-retardant                                  | NPQM    | PUN-V0     | Very safe in areas where there is a risk of fire thanks to flame-retardant properties. The tubing has been tested to DIN 5510-2.                                                                                                      |
| Resistant to welding spatter                     | NPQH    | PUN-V0-C   | Ideal for applications involving welding spatter. Reliable thanks to a tubing wall thickness of 2 mm for all diameters.                                                                                                               |
|                                                  | QS-V0   | PAN-V0     | Safe even in the close vicinity of welding spatter thanks to the double-walled tubing with special fitting.                                                                                                                           |

## Characteristics

## Push-in fittings product range

QSM, mini series

Data sheets → Internet: qsm



Miniature push-in fittings for maximum component density in confined spaces. For pneumatic applications with a temperature range up to 80°C and a pressure range up to 14 bar. Tubing O.D. of 2, 3, 4 and 6 mm with connecting threads M3, M5, M6, M7, R1/8 and G1/8.

QS, standard series

Data sheets → Internet: qs



Wide selection of push-in fittings for pneumatic applications with a temperature range up to 80°C and a pressure range up to 14 bar. Tubing O.D. of 4, 6, 8, 10, 12, 16 and 22 mm with connecting threads R1/8 ... R1/2 and G1/8 ... G3/4.

CRQS, stainless steel

Data sheets → Internet: crqs



Stainless steel push-in fitting. High corrosion resistance CRC 4 and chemical resistance with approval for use in the food and packaging industry. For pneumatic applications with a temperature range up to 120°C and a pressure range up to 10 bar. Tubing O.D. of 4, 6, 8, 10, 12 and 16 mm with connecting threads M5 and R1/8 ... R1/2.

QS-V0, resistant to welding spatter

Data sheets → Internet: qs-v0



Flame-retardant push-in fitting for use in all areas where there is a risk of fire, for example welding systems in the automotive industry, and in the construction industry. For pneumatic applications with a temperature range up to 60°C and a pressure range up to 10 bar. Tubing O.D. of 4, 6, 8, 10 and 12 mm with connecting threads R1/8 ... R1/2 and G1/8 ... G1/2.

NPQE

Data sheets → Internet: npqe



Low-cost push-in fittings for pneumatic applications with a temperature range up to 60°C and a pressure range up to 8 bar. Tubing O.D. of 3, 4, 6, 8, 10, 12, 14 and 16 mm with connecting threads M3, M5, M7 and R1/8 ... R1/2.

NPQH

Data sheets → Internet: npqh



Solid metal push-in fitting made of chemically nickel-plated brass. High corrosion resistance CRC 3 and chemical resistance. For pneumatic applications with a temperature range up to 150°C and a pressure range up to 20 bar. Tubing O.D. of 4, 6, 8, 10, 12 and 14 mm with connecting threads M5, M7 and G1/8 ... G1/2.

NPQM

Data sheets → Internet: npqm



Attractively priced metal push-in fitting for pneumatic applications with a temperature range up to 70°C and a pressure range up to 16 bar. Tubing O.D. of 3, 4, 6, 8, 10, 12 and 14 mm with connecting threads M5, M7 and G1/8 ... G1/2.

NPQP

Data sheets → Internet: npqp



Polypropylene fitting for use in applications with extreme influence of media. For pneumatic applications with a temperature range up to 60°C and a pressure range up to 10 bar. Tubing O.D. of 4, 6, 8, 10 and 12 mm with connecting threads R1/8 ... R1/2.

## Key features

**Push-in fittings product range**

NPQR, stainless steel

Data sheets → Internet: npqr



Stainless steel push-in fitting. Maximum corrosion resistance CRC 4 and chemical resistance. For pneumatic applications with a temperature range up to 150°C and a pressure range up to 16 bar.

Tubing O.D. of 4, 6, 8, 10 and 12 mm with connecting threads M5, M7 and G1/8 ... G1/2.

**Functional push-in fittings product range**QSK,  
Push-in fitting, self-sealing

Data sheets → Internet: qsk



Push-in fitting that blocks the air flow after the tubing is disconnected. For pneumatic applications with a temperature range up to 60°C and a pressure range up to 14 bar.

Tubing O.D. of 4, 6, 8, 10 and 12 mm with connecting threads M5, R1/8 ... R1/2 and G1/8 ... G1/2.

QSR,  
Push-in fitting, rotatable

Data sheets → Internet: qsr



Push-in fitting with swivel joint, rotatable by 360°. The ball bearing enables rotating movements in the application up to max. 500 rpm. For pneumatic applications with a temperature range up to 60°C and a pressure range up to 14 bar.

Tubing O.D. of 4, 6, 8, 10 and 12 mm with connecting threads M5, R1/8 ... R1/2 and G1/8 ... G1/2.

**Quick connectors product range**

NPCK

Data sheets → Internet: npck



Stainless steel fitting for use in areas subject to intensive cleaning. Highest level of corrosion resistance CRC 4. For pneumatic applications with a temperature range up to 120°C and a pressure range up to 12 bar.

Tubing O.D. of 4, 6, 8 and 10 mm with connecting threads M5 and G1/8 ... G3/8.

**Click fittings product range**

NPKA

Data sheets → Internet: npka



Plastic fitting for easy installation with one-hand operation. Hydrolysis-resistant, FDA-compliant and easy to clean. For pneumatic applications with a temperature range up to 60°C and a pressure range up to 10 bar.

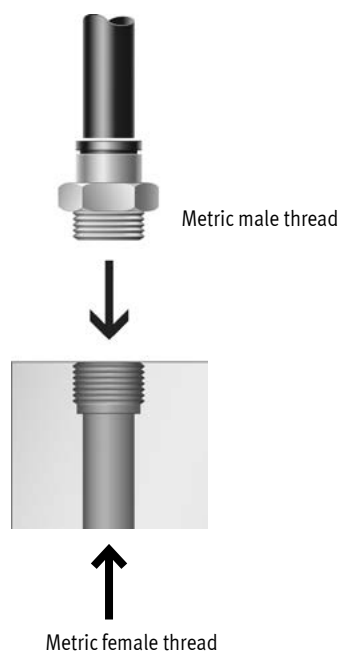
Tubing O.D. of 6 mm with connecting thread G1/8.

## Key features

### Which fitting fits which thread?

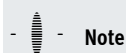
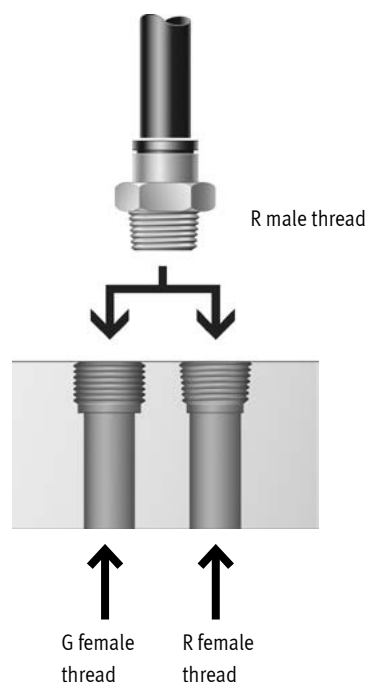
#### Metric thread

- Threads are comparable with G threads and are fitted as cylindrical metric thread
- Sealing is guaranteed via an O-ring.



#### R thread based on JIS B0203 and compatible with pressure-tight media to EN 10226.

- Self-sealing thread
- Sealing via coated threads
- No additional sealing surface required
- Smaller installation dimensions since there is no need for an offset for the sealing surface
- Can be reused up to 3 times.



#### Note

All R threads are coated with a sealing material. This coating replaces the conventional sealing ring. Simply screw in the R thread by hand and tighten 1 or 2 revolutions with an open-end spanner. The fitting can be screwed in again up to three times.

When screwing in R-threads several times, you must make sure that the abraded particles from the sealing material coating cannot enter the compressed air system.

### Tube assembly/disassembly

#### Mounting

The prerequisite for ensuring that the inside seal is securely held and protected against damage is that the tube is cut into straight lengths and deburred.

- 1) Insert tubing as far as the stop.  
It is important to ensure that the tubing is inserted into the inside seal. Depending on the tolerance between the tubing and the seal, the contact of the tubing with the seal may be wrongly interpreted as the stop.
- 2) Check that the tubing connection is secure by pulling gently on the tube.

#### Disassembly

- 1) The tubing can be detached easily by pressing and holding down the releasing ring. Remove the tubing carefully from the fitting.
- 2) Before re-using the tubing, remove the damaged part by cutting it off.

## Technical data

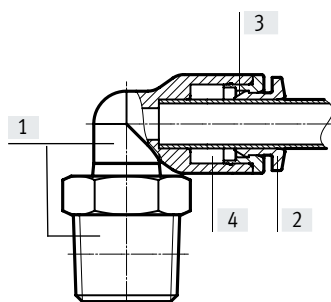
| General technical data                                |                                                                                      |
|-------------------------------------------------------|--------------------------------------------------------------------------------------|
| Design                                                | Push-pull principle                                                                  |
| Mounting position                                     | Any                                                                                  |
| Type of seal on screwed trunnion                      | Sealing ring for M thread<br>Coating for R thread                                    |
| Nominal tightening torque [Nm]                        | 0.3 ±5% for M3 male thread<br>0.8 ±5% for M5 male thread<br>2 ±5% for M7 male thread |
| Operating and environmental conditions                |                                                                                      |
| Operating pressure for entire temperature range [bar] | −0.95 ... 8                                                                          |
| Operating medium                                      | Compressed air to ISO 8573-1:2010 [7:4:4]                                            |
| Note on operating/pilot medium                        | Lubricated operation possible                                                        |
| Ambient temperature [°C]                              | −5 ... +60                                                                           |
| Corrosion resistance class CRC <sup>1)</sup>          | 1                                                                                    |

1) Corrosion resistance class CRC 1 to Festo standard FN 940070

Low corrosion stress. Dry indoor application or transport and storage protection. Also applies to parts behind coverings, in the non-visible interior area, and parts which are covered in the application (e.g. drive trunnions).

## Materials

## Sectional view



| Type                    | Push-in fitting<br>NPQE-D,<br>push-in bulkhead<br>connector NPQE-H | Push-in fitting<br>NPQE-L/NPQE-LH/<br>NPQE-LL/NPQE-T/<br>NPQE-LQ/NPQE-LT/<br>NPQE-Y | Push-in connector<br>NPQE-D/NPQE-L/<br>NPQE-T/NPQE-Y/<br>NPQE-X,<br>push-in cap NPQE-P | Push-in sleeve<br>NPQE-D,<br>blanking plug<br>NPQE-P,<br>safety clip NPAP-QE |
|-------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| [1] Housing             | Brass<br>–                                                         | PBT                                                                                 | –                                                                                      | –                                                                            |
| [2] Releasing ring      | POM (colour: blue)                                                 |                                                                                     |                                                                                        | –                                                                            |
| [3] Tube retaining claw | Stainless steel                                                    |                                                                                     |                                                                                        | –                                                                            |
| [4] Tubing seal         | NBR                                                                |                                                                                     |                                                                                        | –                                                                            |
| – Threaded seal         | NBR for M thread<br>PTFE for R thread                              |                                                                                     | –                                                                                      | –                                                                            |
| – O-ring                | NBR for M thread                                                   |                                                                                     | –                                                                                      | –                                                                            |
| Note on materials       | RoHS-compliant<br>Contains paint-wetting impairment substances     |                                                                                     |                                                                                        |                                                                              |

## Product range overview

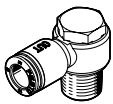
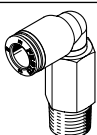
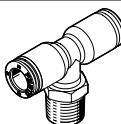
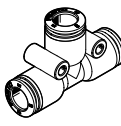
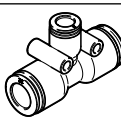
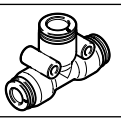
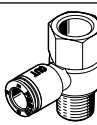
| Design                                                                              | Version                                                                           | Type   | Connection D1        |          |          |             | Connection D2    |             | → Page/<br>Internet |                  |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------|----------------------|----------|----------|-------------|------------------|-------------|---------------------|------------------|
|                                                                                     |                                                                                   |        | M thread             | R thread | G thread | Tubing O.D. | Push-in sleeve ∅ | Tubing O.D. |                     | Push-in sleeve ∅ |
| Straight shape                                                                      | Push-in fitting – male thread with external hex                                   |        |                      |          |          |             |                  |             |                     |                  |
|                                                                                     |  | NPQE-D | M3                   | –        | –        | –           | –                | 3, 4        | –                   | 11               |
| M5                                                                                  | 3, 4, 6                                                                           |        |                      |          |          |             |                  |             |                     |                  |
| M7                                                                                  | 4, 6                                                                              |        |                      |          |          |             |                  |             |                     |                  |
| –                                                                                   | R1/8                                                                              |        | 4, 6, 8, 10, 12      |          |          |             |                  |             |                     |                  |
|                                                                                     | R1/4                                                                              |        | 4, 6, 8, 10, 12      |          |          |             |                  |             |                     |                  |
|                                                                                     | R3/8                                                                              |        | 6, 8, 10, 12, 14, 16 |          |          |             |                  |             |                     |                  |
|                                                                                     | R1/2                                                                              |        | 6, 8, 10, 12, 14, 16 |          |          |             |                  |             |                     |                  |
| Push-in fitting – female thread with external hex                                   |                                                                                   |        |                      |          |          |             |                  |             |                     |                  |
|    | NPQE-D                                                                            | M5     | –                    | –        | –        | –           | 3, 4             | –           | 12                  |                  |
| –                                                                                   |                                                                                   | G1/8   |                      |          |          |             | 4, 6, 8, 10      |             |                     |                  |
|                                                                                     |                                                                                   | G1/4   |                      |          |          |             | 4, 6, 8, 10, 12  |             |                     |                  |
|                                                                                     |                                                                                   | G3/8   |                      |          |          |             | 6, 8, 10, 12     |             |                     |                  |
|                                                                                     |                                                                                   | G1/2   |                      |          |          |             | 12, 16           |             |                     |                  |
|                                                                                     |                                                                                   |        |                      |          |          |             |                  |             |                     |                  |
| Push-in connector                                                                   |                                                                                   |        |                      |          |          |             |                  |             |                     |                  |
|    | NPQE-D                                                                            | –      | –                    | –        | 3        | –           | 3                | –           | 13                  |                  |
|                                                                                     |                                                                                   |        |                      |          | 4        |             | 4                |             |                     |                  |
|                                                                                     |                                                                                   |        |                      |          | 6        |             | 6                |             |                     |                  |
|                                                                                     |                                                                                   |        |                      |          | 8        |             | 8                |             |                     |                  |
|                                                                                     |                                                                                   |        |                      |          | 10       |             | 10               |             |                     |                  |
|                                                                                     |                                                                                   |        |                      |          | 12       |             | 12               |             |                     |                  |
|                                                                                     |                                                                                   |        |                      |          | 14       |             | 14               |             |                     |                  |
|                                                                                     | 16                                                                                | 16     |                      |          |          |             |                  |             |                     |                  |
|  | NPQE-D<br>reducing                                                                | –      | –                    | –        | 4        | –           | 3                | –           | 13                  |                  |
|                                                                                     |                                                                                   |        |                      |          | 6        |             | 4                |             |                     |                  |
|                                                                                     |                                                                                   |        |                      |          | 8        |             | 4, 6             |             |                     |                  |
|                                                                                     |                                                                                   |        |                      |          | 10       |             | 6, 8             |             |                     |                  |
|                                                                                     |                                                                                   |        |                      |          | 12       |             | 8, 10            |             |                     |                  |
|                                                                                     |                                                                                   |        |                      |          | 14       |             | 10, 12           |             |                     |                  |
| Push-in connector with push-in sleeve                                               |                                                                                   |        |                      |          |          |             |                  |             |                     |                  |
|  | NPQE-D                                                                            | –      | –                    | –        | 3        | –           | –                | 4           | 14                  |                  |
|                                                                                     |                                                                                   |        |                      |          | 4        |             |                  | 6, 8        |                     |                  |
|                                                                                     |                                                                                   |        |                      |          | 6        |             |                  | 8, 10, 12   |                     |                  |
|                                                                                     |                                                                                   |        |                      |          | 8        |             |                  | 10, 12      |                     |                  |
|                                                                                     |                                                                                   |        |                      |          | 10       |             |                  | 12          |                     |                  |
| Push-in sleeve                                                                      |                                                                                   |        |                      |          |          |             |                  |             |                     |                  |
|  | NPQE-D                                                                            | –      | –                    | –        | –        | 4           | –                | 4           | 15                  |                  |
|                                                                                     |                                                                                   |        |                      |          |          | 6           |                  | 6           |                     |                  |
|                                                                                     |                                                                                   |        |                      |          |          | 8           |                  | 8           |                     |                  |
|                                                                                     |                                                                                   |        |                      |          |          | 10          |                  | 10          |                     |                  |
|                                                                                     |                                                                                   |        |                      |          |          | 12          |                  | 12          |                     |                  |
|                                                                                     |                                                                                   |        |                      |          |          | 16          |                  | 16          |                     |                  |
|  | NPQE-D<br>reducing                                                                | –      | –                    | –        | –        | 6           | –                | 4           | 15                  |                  |
|                                                                                     |                                                                                   |        |                      |          |          | 8           |                  | 6           |                     |                  |
|                                                                                     |                                                                                   |        |                      |          |          | 10          |                  | 8           |                     |                  |
|                                                                                     |                                                                                   |        |                      |          |          | 12          |                  | 8, 10       |                     |                  |
|                                                                                     |                                                                                   |        |                      |          |          | 16          |                  | 12          |                     |                  |

## Product range overview

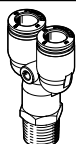
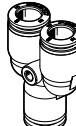
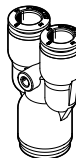
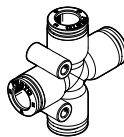
| Design        | Version                                                                             | Type   | Connection D1       |          |          |             | Connection D2       |                      | → Page/<br>Internet |                     |             |  |  |  |  |  |  |  |
|---------------|-------------------------------------------------------------------------------------|--------|---------------------|----------|----------|-------------|---------------------|----------------------|---------------------|---------------------|-------------|--|--|--|--|--|--|--|
|               |                                                                                     |        | M thread            | R thread | G thread | Tubing O.D. | Push-in<br>sleeve Ø | Tubing O.D.          |                     | Push-in<br>sleeve Ø |             |  |  |  |  |  |  |  |
| Bulkhead      | Push-in bulkhead connector                                                          |        |                     |          |          |             |                     |                      |                     |                     |             |  |  |  |  |  |  |  |
|               |    | NPQE-H | –                   | –        | –        | 3           | –                   | 3                    | –                   | 16                  |             |  |  |  |  |  |  |  |
|               |                                                                                     |        |                     |          |          | 4           |                     | 4                    |                     |                     |             |  |  |  |  |  |  |  |
|               |                                                                                     |        |                     |          |          | 6           |                     | 6                    |                     |                     |             |  |  |  |  |  |  |  |
|               |                                                                                     |        |                     |          |          | 8           |                     | 8                    |                     |                     |             |  |  |  |  |  |  |  |
|               |                                                                                     |        |                     |          |          | 10          |                     | 10                   |                     |                     |             |  |  |  |  |  |  |  |
|               |                                                                                     |        |                     |          |          | 12          |                     | 12                   |                     |                     |             |  |  |  |  |  |  |  |
|               |                                                                                     |        |                     |          |          |             |                     |                      |                     |                     |             |  |  |  |  |  |  |  |
| Blanking plug | Blanking plug                                                                       |        |                     |          |          |             |                     |                      |                     |                     |             |  |  |  |  |  |  |  |
|               |    | NPQE-P | –                   | –        | –        | –           | 3                   | –                    | –                   | 16                  |             |  |  |  |  |  |  |  |
|               |                                                                                     |        |                     |          |          |             | 4                   |                      |                     |                     |             |  |  |  |  |  |  |  |
|               |                                                                                     |        |                     |          |          |             | 6                   |                      |                     |                     |             |  |  |  |  |  |  |  |
|               |                                                                                     |        |                     |          |          |             | 8                   |                      |                     |                     |             |  |  |  |  |  |  |  |
|               |                                                                                     |        |                     |          |          |             | 10                  |                      |                     |                     |             |  |  |  |  |  |  |  |
|               |                                                                                     |        |                     |          |          |             | 12                  |                      |                     |                     |             |  |  |  |  |  |  |  |
|               |                                                                                     |        |                     |          |          |             |                     |                      |                     |                     |             |  |  |  |  |  |  |  |
|               |    | NPQE-P | –                   | –        | –        | –           | 3                   | –                    | –                   | 17                  |             |  |  |  |  |  |  |  |
|               |                                                                                     |        |                     |          |          |             | 4                   |                      |                     |                     |             |  |  |  |  |  |  |  |
|               |                                                                                     |        |                     |          |          |             | 6                   |                      |                     |                     |             |  |  |  |  |  |  |  |
|               |                                                                                     |        |                     |          |          |             | 8                   |                      |                     |                     |             |  |  |  |  |  |  |  |
|               |                                                                                     |        |                     |          |          |             | 10                  |                      |                     |                     |             |  |  |  |  |  |  |  |
|               |                                                                                     |        |                     |          |          |             | 12                  |                      |                     |                     |             |  |  |  |  |  |  |  |
|               |                                                                                     |        |                     |          |          |             |                     |                      |                     |                     |             |  |  |  |  |  |  |  |
| L-shape       | Push-in L-fitting – male thread with external hex                                   |        |                     |          |          |             |                     |                      |                     |                     |             |  |  |  |  |  |  |  |
|               |  | NPQE-L | M3                  | –        | –        | –           | –                   | 3, 4                 | –                   | 18                  |             |  |  |  |  |  |  |  |
|               |                                                                                     |        | M5                  |          |          |             |                     | 3, 4, 6              |                     |                     |             |  |  |  |  |  |  |  |
|               |                                                                                     |        | M7                  |          |          |             |                     | 4, 6                 |                     |                     |             |  |  |  |  |  |  |  |
|               |                                                                                     |        | –                   |          |          |             |                     | 4, 6, 8, 10, 12      |                     |                     |             |  |  |  |  |  |  |  |
|               |                                                                                     |        | R1/8                |          |          |             |                     | 4, 6, 8, 10, 12      |                     |                     |             |  |  |  |  |  |  |  |
|               |                                                                                     |        | R1/4                |          |          |             |                     | 6, 8, 10, 12, 14, 16 |                     |                     |             |  |  |  |  |  |  |  |
|               |                                                                                     |        |                     |          |          |             |                     |                      |                     |                     |             |  |  |  |  |  |  |  |
|               |  | NPQE-L | M5                  | –        | –        | –           | –                   | 4                    | –                   | 19                  |             |  |  |  |  |  |  |  |
|               |                                                                                     |        | –                   |          |          |             |                     | G1/8                 |                     |                     | 4, 6, 8, 10 |  |  |  |  |  |  |  |
|               |                                                                                     |        | –                   |          |          |             |                     | G1/4                 |                     |                     | 6, 8, 10    |  |  |  |  |  |  |  |
|               |                                                                                     |        | –                   |          |          |             |                     | G3/8                 |                     |                     | 8, 10       |  |  |  |  |  |  |  |
|               |                                                                                     |        |                     |          |          |             |                     |                      |                     |                     |             |  |  |  |  |  |  |  |
|               |                                                                                     |        | Push-in L-connector |          |          |             |                     |                      |                     |                     |             |  |  |  |  |  |  |  |
|               |  | NPQE-L | –                   | –        | –        | 3           | –                   | 3                    | –                   | 20                  |             |  |  |  |  |  |  |  |
|               |                                                                                     |        |                     |          |          | 4           |                     | 4                    |                     |                     |             |  |  |  |  |  |  |  |
|               |                                                                                     |        |                     |          |          | 6           |                     | 6                    |                     |                     |             |  |  |  |  |  |  |  |
|               |                                                                                     |        |                     |          |          | 8           |                     | 8                    |                     |                     |             |  |  |  |  |  |  |  |
|               |                                                                                     |        |                     |          |          | 10          |                     | 10                   |                     |                     |             |  |  |  |  |  |  |  |
|               |                                                                                     |        |                     |          |          | 12          |                     | 12                   |                     |                     |             |  |  |  |  |  |  |  |
|               |                                                                                     |        |                     |          |          | 14          |                     | 14                   |                     |                     |             |  |  |  |  |  |  |  |
|               |                                                                                     |        |                     |          |          | 16          |                     | 16                   |                     |                     |             |  |  |  |  |  |  |  |
|               |                                                                                     |        |                     |          |          |             |                     |                      |                     |                     |             |  |  |  |  |  |  |  |
|               | Push-in L-connector with push-in sleeve                                             |        |                     |          |          |             |                     |                      |                     |                     |             |  |  |  |  |  |  |  |
|               |  | NPQE-L | –                   | –        | –        | 3           | –                   | –                    | 3, 4                | 20                  |             |  |  |  |  |  |  |  |
|               |                                                                                     |        |                     |          |          | 4           |                     | 4, 6                 |                     |                     |             |  |  |  |  |  |  |  |
|               |                                                                                     |        |                     |          |          | 6           |                     | 6, 8                 |                     |                     |             |  |  |  |  |  |  |  |
| 8             |                                                                                     |        |                     |          |          | 8, 10       |                     |                      |                     |                     |             |  |  |  |  |  |  |  |
| 10            |                                                                                     |        |                     |          |          | 10, 12      |                     |                      |                     |                     |             |  |  |  |  |  |  |  |
| 12            |                                                                                     |        |                     |          |          | 12          |                     |                      |                     |                     |             |  |  |  |  |  |  |  |



## Product range overview

| Design                                                                                   | Version                                                                             | Type                 | Connection D1 |          |           |             |                     | Connection D2   |                     | → Page/<br>Internet |
|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------|---------------|----------|-----------|-------------|---------------------|-----------------|---------------------|---------------------|
|                                                                                          |                                                                                     |                      | M thread      | R thread | G thread  | Tubing O.D. | Push-in<br>sleeve ∅ | Tubing O.D.     | Push-in<br>sleeve ∅ |                     |
| L-shape                                                                                  | Push-in L-fitting – hollow bolt with external hex                                   |                      |               |          |           |             |                     |                 |                     |                     |
|                                                                                          |    | NPQE-LH              | M5            | –        | –         | –           | –                   | 4, 6            | –                   | 21                  |
|                                                                                          |                                                                                     |                      | –             | R1/8     | –         | –           | –                   | 4, 6, 8, 10     | –                   |                     |
|                                                                                          |                                                                                     |                      | –             | R1/4     | –         | –           | –                   | 4, 6, 8, 10, 12 | –                   |                     |
|                                                                                          |                                                                                     |                      | –             | R3/8     | –         | –           | –                   | 6, 8, 10, 12    | –                   |                     |
|                                                                                          |                                                                                     |                      | –             | R1/2     | –         | –           | –                   | 10, 12, 16      | –                   |                     |
| L-shape, long                                                                            | Push-in L-fitting, long – Male thread with external hex                             |                      |               |          |           |             |                     |                 |                     |                     |
|                                                                                          |    | NPQE-LL              | M3            | –        | –         | –           | –                   | 4               | –                   | 22                  |
|                                                                                          |                                                                                     |                      | M5            | –        | –         | –           | –                   | 4, 6            | –                   |                     |
|                                                                                          |                                                                                     |                      | M7            | –        | –         | –           | –                   | 4, 6            | –                   |                     |
|                                                                                          |                                                                                     |                      | –             | R1/8     | –         | –           | –                   | 4, 6, 8, 10, 12 | –                   |                     |
|                                                                                          |                                                                                     |                      | –             | R1/4     | –         | –           | –                   | 4, 6, 8, 10, 12 | –                   |                     |
| –                                                                                        | R3/8                                                                                | –                    | –             | –        | 8, 10, 12 | –           |                     |                 |                     |                     |
| –                                                                                        | R1/2                                                                                | –                    | –             | –        | 12        | –           | –                   |                 |                     |                     |
| T-shape                                                                                  | Push-in T-fitting – Male thread with external hex                                   |                      |               |          |           |             |                     |                 |                     |                     |
|                                                                                          |    | NPQE-T               | M3            | –        | –         | –           | –                   | 4               | –                   | 23                  |
|                                                                                          |                                                                                     |                      | M5            | –        | –         | –           | –                   | 4, 6            | –                   |                     |
|                                                                                          |                                                                                     |                      | –             | R1/8     | –         | –           | –                   | 4, 6, 8, 10, 12 | –                   |                     |
|                                                                                          |                                                                                     |                      | –             | R1/4     | –         | –           | –                   | 4, 6, 8, 10, 12 | –                   |                     |
|                                                                                          |                                                                                     |                      | –             | R3/8     | –         | –           | –                   | 8, 10, 12       | –                   |                     |
|                                                                                          | –                                                                                   | R1/2                 | –             | –        | –         | 10, 12, 16  | –                   | –               |                     |                     |
|                                                                                          | Push-in T-connector                                                                 |                      |               |          |           |             |                     |                 |                     |                     |
|                                                                                          |  | NPQE-T               | –             | –        | –         | 3           | –                   | 3               | –                   | 24                  |
|                                                                                          |                                                                                     |                      | –             | –        | –         | 4           | –                   | 4               | –                   |                     |
|                                                                                          |                                                                                     |                      | –             | –        | –         | 6           | –                   | 6               | –                   |                     |
|                                                                                          |                                                                                     |                      | –             | –        | –         | 8           | –                   | 8               | –                   |                     |
|                                                                                          |                                                                                     |                      | –             | –        | –         | 10          | –                   | 10              | –                   |                     |
|                                                                                          |  | NPQE-T<br>increasing | –             | –        | –         | 12          | –                   | 12              | –                   | 24                  |
|                                                                                          |                                                                                     |                      | –             | –        | –         | 16          | –                   | 16              | –                   |                     |
|                                                                                          |                                                                                     |                      | –             | –        | –         | 3           | –                   | 4               | –                   |                     |
|                                                                                          |                                                                                     |                      | –             | –        | –         | 4           | –                   | 6, 8            | –                   |                     |
|                                                                                          |                                                                                     |                      | –             | –        | –         | 6           | –                   | 8, 10           | –                   |                     |
|                                                                                          |  | NPQE-T<br>reducing   | –             | –        | –         | 8           | –                   | 10, 12          | –                   | 24                  |
|                                                                                          |                                                                                     |                      | –             | –        | –         | 10          | –                   | 12              | –                   |                     |
|                                                                                          |                                                                                     |                      | –             | –        | –         | 12          | –                   | 16              | –                   |                     |
| –                                                                                        |                                                                                     |                      | –             | –        | 6         | –           | 4                   | –               |                     |                     |
| –                                                                                        |                                                                                     |                      | –             | –        | 8         | –           | 6                   | –               |                     |                     |
|       | NPQE-LQ                                                                             | M5                   | –             | –        | –         | –           | 4, 6                | –               | 25                  |                     |
|                                                                                          |                                                                                     | –                    | R1/8          | –        | –         | –           | 4, 6, 8, 10, 12     | –               |                     |                     |
|                                                                                          |                                                                                     | –                    | R1/4          | –        | –         | –           | 4, 6, 8, 10, 12     | –               |                     |                     |
|                                                                                          |                                                                                     | –                    | –             | –        | –         | –           | –                   | –               |                     |                     |
| Push-in T-fitting – male thread with external hex, additional push-in connector, in-line |                                                                                     |                      |               |          |           |             |                     |                 |                     |                     |
|       | NPQE-LT                                                                             | M5                   | –             | –        | –         | –           | 4, 6                | –               | 26                  |                     |
|                                                                                          |                                                                                     | –                    | R1/8          | –        | –         | –           | 4, 6, 8, 10         | –               |                     |                     |
|                                                                                          |                                                                                     | –                    | R1/4          | –        | –         | –           | 6, 8, 10, 12        | –               |                     |                     |
|                                                                                          |                                                                                     | –                    | R3/8          | –        | –         | –           | 10, 12              | –               |                     |                     |
|                                                                                          |                                                                                     | –                    | R1/2          | –        | –         | –           | 12                  | –               |                     |                     |

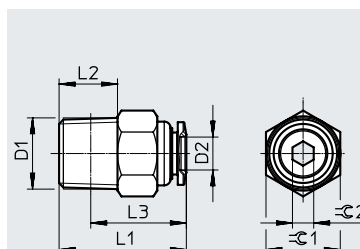
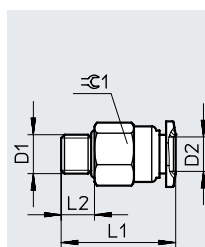
## Product range overview

| Design                                                                              | Version                                                                           | Type                                                                                | Connection D1 |          |          |             | Connection D2       |             | → Page/<br>Internet |                     |    |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------|----------|----------|-------------|---------------------|-------------|---------------------|---------------------|----|
|                                                                                     |                                                                                   |                                                                                     | M thread      | R thread | G thread | Tubing O.D. | Push-in<br>sleeve Ø | Tubing O.D. |                     | Push-in<br>sleeve Ø |    |
| Y-shape                                                                             | Push-in Y-fitting – male thread with external hex                                 |                                                                                     |               |          |          |             |                     |             |                     |                     |    |
|                                                                                     |  | NPQE-Y                                                                              | –             | R1/8     | –        | –           | –                   | 4, 6, 8, 10 | –                   | 27                  |    |
|                                                                                     |                                                                                   |                                                                                     |               | R1/4     |          |             |                     | 4, 6, 8, 10 |                     |                     |    |
|                                                                                     |                                                                                   |                                                                                     |               | R3/8     |          |             |                     | 10, 12      |                     |                     |    |
|                                                                                     |                                                                                   |                                                                                     |               | R1/2     |          |             |                     | 12          |                     |                     |    |
|                                                                                     | Push-in Y-connector                                                               |                                                                                     |               |          |          |             |                     |             |                     |                     |    |
|                                                                                     |  | NPQE-Y                                                                              | –             | –        | –        | 3           | –                   | 3           | –                   | 28                  |    |
|                                                                                     |                                                                                   |                                                                                     |               |          |          | 4           |                     | 4           |                     |                     |    |
|                                                                                     |                                                                                   |                                                                                     |               |          |          | 6           |                     | 6           |                     |                     |    |
|                                                                                     |                                                                                   |                                                                                     |               |          |          | 8           |                     | 8           |                     |                     |    |
|                                                                                     |                                                                                   |                                                                                     |               |          |          | 10          |                     | 10          |                     |                     |    |
|                                                                                     |                                                                                   |                                                                                     |               |          |          | 12          |                     | 12          |                     |                     |    |
|                                                                                     |  | NPQE-Y<br>reducing                                                                  | –             | –        | –        | 16          | –                   | 16          | –                   | 28                  |    |
|                                                                                     |                                                                                   |                                                                                     |               |          |          | 4           |                     | 3           |                     |                     |    |
|                                                                                     |                                                                                   |                                                                                     |               |          |          | 6           |                     | 4           |                     |                     |    |
|                                                                                     |                                                                                   |                                                                                     |               |          |          | 8           |                     | 4, 6        |                     |                     |    |
|                                                                                     |                                                                                   |                                                                                     |               |          |          | 10          |                     | 6, 8        |                     |                     |    |
|                                                                                     |                                                                                   |                                                                                     |               |          |          | 12          |                     | 8, 10       |                     |                     |    |
|                                                                                     | X-shape                                                                           | Push-in X-connector                                                                 |               |          |          |             |                     |             |                     |                     |    |
|  |                                                                                   | NPQE-X                                                                              | –             | –        | –        | 3           | –                   | 3           | –                   | 29                  |    |
|                                                                                     |                                                                                   |                                                                                     |               |          |          | 4           |                     | 4           |                     |                     |    |
|                                                                                     |                                                                                   |                                                                                     |               |          |          | 6           |                     | 6           |                     |                     |    |
|                                                                                     |                                                                                   |                                                                                     |               |          |          | 8           |                     | 8           |                     |                     |    |
|                                                                                     |                                                                                   |                                                                                     |               |          |          | 10          |                     | 10          |                     |                     |    |
|                                                                                     |                                                                                   |                                                                                     |               |          |          | 12          |                     | 12          |                     |                     |    |
| Safety clip                                                                         |                                                                                   |  | NPAP-QE       | –        | –        | –           | 4                   | –           | –                   | –                   | 29 |
|                                                                                     |                                                                                   |                                                                                     |               |          |          |             | 6                   |             |                     |                     |    |
|                                                                                     |                                                                                   |                                                                                     |               |          |          |             | 8                   |             |                     |                     |    |
|                                                                                     |                                                                                   |                                                                                     |               |          |          |             | 10                  |             |                     |                     |    |
|                                                                                     |                                                                                   |                                                                                     |               |          |          |             | 12                  |             |                     |                     |    |
|                                                                                     |                                                                                   |                                                                                     |               |          |          |             | 16                  |             |                     |                     |    |

## Data sheet

## Push-in fitting NPQE-D

Male thread with external hex



## Dimensions and ordering data

| Pneumatic connection                   |                 | Nominal width [mm] | Dimensions [mm] |      |      |                 |                 | Weight/ piece [g] | Part no. | Type                            | Pc. <sup>1)</sup> |
|----------------------------------------|-----------------|--------------------|-----------------|------|------|-----------------|-----------------|-------------------|----------|---------------------------------|-------------------|
| Male thread                            | For tubing O.D. |                    | L1              | L2   | L3   | $\varnothing 1$ | $\varnothing 2$ |                   |          |                                 |                   |
| D1                                     | D2              |                    |                 |      |      |                 |                 |                   |          |                                 |                   |
| <b>Metric thread with sealing ring</b> |                 |                    |                 |      |      |                 |                 |                   |          |                                 |                   |
| M3                                     | 3               | 1                  | 14.8            | 3    | –    | 5.5             | –               | 1.09              | 8112906  | NPQE-D-M3-Q3-P10                | 10                |
|                                        | 4               | 1                  | 16.8            | 3    | –    | 8               | –               | 2.92              | 8112907  | NPQE-D-M3-Q4-P10 <sup>2)</sup>  | 10                |
| M5                                     | 3               | 2                  | 15.5            | 3.5  | –    | 8               | –               | 2.88              | 8112908  | NPQE-D-M5-Q3-P10                | 10                |
|                                        | 4               | 2.3                | 17.3            | 3.5  | –    | 8               | –               | 2.93              | 8112909  | NPQE-D-M5-Q4-P10 <sup>2)</sup>  | 10                |
|                                        | 6               | 2.3                | 18.2            | 3.5  | –    | 10              | –               | 3.86              | 8112910  | NPQE-D-M5-Q6-P10 <sup>2)</sup>  | 10                |
| M7                                     | 4               | 3                  | 20.1            | 6    | –    | 10              | –               | 6.43              | 8112911  | NPQE-D-M7-Q4-P10 <sup>2)</sup>  | 10                |
|                                        | 6               | 3.5                | 20.6            | 6    | –    | 10              | –               | 5.22              | 8112912  | NPQE-D-M7-Q6-P10 <sup>2)</sup>  | 10                |
| <b>R thread</b>                        |                 |                    |                 |      |      |                 |                 |                   |          |                                 |                   |
| R1/8                                   | 4               | 3                  | 19.4            | 8    | 15.4 | 10              | –               | 6.66              | 8112913  | NPQE-D-R18-Q4-P10 <sup>2)</sup> | 10                |
|                                        | 6               | 4                  | 19.5            | 8    | 15.5 | 10              | –               | 5.74              | 8112914  | NPQE-D-R18-Q6-P10 <sup>2)</sup> | 10                |
|                                        | 8               | 5                  | 28.1            | 8.5  | 24.1 | 14              | 5               | 14.75             | 8112915  | NPQE-D-R18-Q8-P10               | 10                |
|                                        | 10              | 5                  | 30.4            | 8.5  | 26.4 | 17              | 5               | 20.26             | 8112916  | NPQE-D-R18-Q10-P10              | 10                |
|                                        | 12              | 5                  | 32.4            | 8.5  | 28.4 | 21              | 5               | 27.95             | 8112917  | NPQE-D-R18-Q12-P10              | 10                |
| R1/4                                   | 4               | 3                  | 19.4            | 11   | 13.4 | 14              | 3               | 15.2              | 8112918  | NPQE-D-R14-Q4-P10               | 10                |
|                                        | 6               | 4                  | 24              | 11   | 18   | 14              | 4               | 17.16             | 8112919  | NPQE-D-R14-Q6-P10               | 10                |
|                                        | 8               | 6                  | 26.1            | 11   | 20.1 | 14              | 6               | 13.08             | 8112920  | NPQE-D-R14-Q8-P10               | 10                |
|                                        | 10              | 6                  | 32.7            | 11.5 | 26.7 | 17              | 6               | 25.08             | 8112921  | NPQE-D-R14-Q10-P10              | 10                |
|                                        | 12              | 6                  | 35.4            | 11.5 | 29.4 | 21              | 6               | 30.53             | 8112922  | NPQE-D-R14-Q12-P10              | 10                |
| R3/8                                   | 6               | 4                  | 22              | 12   | 15.6 | 17              | 4               | 23.17             | 8112923  | NPQE-D-R38-Q6-P5                | 5                 |
|                                        | 8               | 6                  | 23.7            | 12   | 17.3 | 17              | 6               | 20.58             | 8112924  | NPQE-D-R38-Q8-P5                | 5                 |
|                                        | 10              | 8                  | 28.4            | 12   | 22   | 17              | 8               | 23.59             | 8112925  | NPQE-D-R38-Q10-P5               | 5                 |
|                                        | 12              | 8                  | 31.4            | 12.5 | 25   | 21              | 8               | 32.45             | 8112926  | NPQE-D-R38-Q12-P5               | 5                 |
|                                        | 14              | 8                  | 39.2            | 12.5 | 32.8 | 22              | 8               | 46.8              | 8112927  | NPQE-D-R38-Q14-P5               | 5                 |
| R1/2                                   | 16              | 8                  | 40.1            | 12.5 | 33.7 | 24              | 8               | 48.2              | 8112928  | NPQE-D-R38-Q16-P5               | 5                 |
|                                        | 6               | 4                  | 26              | 15   | 17.8 | 21              | 4               | 46.67             | 8112929  | NPQE-D-R12-Q6-P5                | 5                 |
|                                        | 8               | 6                  | 27.1            | 15   | 18.9 | 21              | 6               | 41.88             | 8112930  | NPQE-D-R12-Q8-P5                | 5                 |
|                                        | 10              | 8                  | 26.8            | 15   | 18.6 | 21              | 8               | 35.66             | 8112931  | NPQE-D-R12-Q10-P5               | 5                 |
|                                        | 12              | 8                  | 34.1            | 15   | 25.9 | 21              | 8               | 43.13             | 8112932  | NPQE-D-R12-Q12-P5               | 5                 |
|                                        | 14              | 10                 | 35.7            | 15   | 27.5 | 22              | 10              | 43                | 8112933  | NPQE-D-R12-Q14-P5               | 5                 |
|                                        | 16              | 10                 | 37.1            | 15.5 | 28.9 | 24              | 10              | 46.9              | 8112934  | NPQE-D-R12-Q16-P5               | 5                 |

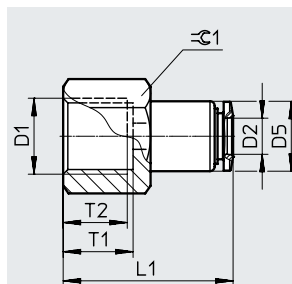
1) Container size

2) Not suitable for safety clip NPAP-QE

## Data sheet

## Push-in fitting NPQE-D

Female thread with external hex



## Dimensions and ordering data

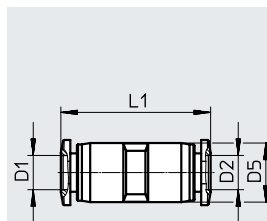
| Pneumatic connection |                 | Nominal width | Dimensions [mm] |      |    |     |     | Weight/<br>piece | Part no. | Type                            | Pc. <sup>1)</sup> |
|----------------------|-----------------|---------------|-----------------|------|----|-----|-----|------------------|----------|---------------------------------|-------------------|
| Female thread        | For tubing O.D. |               | D5<br>ø         | L1   | T1 | T2  | ≈ 1 |                  |          |                                 |                   |
| D1                   | D2              | [mm]          |                 |      |    |     |     | [g]              |          |                                 |                   |
| <b>Metric thread</b> |                 |               |                 |      |    |     |     |                  |          |                                 |                   |
| M5                   | 3               | 2.2           | 7               | 17.3 | 6  | 5.5 | 8   | 3.56             | 8112984  | NPQE-D-M5F-Q3-P10               | 10                |
|                      | 4               | 2.5           | 8               | 19.6 | 6  | 5.5 | 10  | 5                | 8112985  | NPQE-D-M5F-Q4-P10 <sup>2)</sup> | 10                |
| <b>G thread</b>      |                 |               |                 |      |    |     |     |                  |          |                                 |                   |
| G1/8                 | 4               | 2.5           | 10              | 24.8 | 9  | 8   | 14  | 13.92            | 8112986  | NPQE-D-G18F-Q4-P10              | 10                |
|                      | 6               | 4.5           | 12              | 26.1 | 9  | 8   | 14  | 15.67            | 8112987  | NPQE-D-G18F-Q6-P10              | 10                |
|                      | 8               | 6             | 14              | 28.1 | 9  | 8   | 14  | 16.98            | 8112988  | NPQE-D-G18F-Q8-P10              | 10                |
|                      | 10              | 8             | 17              | 30.1 | 9  | 8   | 17  | 27.66            | 8112989  | NPQE-D-G18F-Q10-P10             | 10                |
| G1/4                 | 4               | 2.5           | 10              | 27.8 | 12 | 11  | 17  | 22.8             | 8112990  | NPQE-D-G14F-Q4-P10              | 10                |
|                      | 6               | 4.5           | 12              | 29.1 | 12 | 11  | 17  | 22.67            | 8112991  | NPQE-D-G14F-Q6-P10              | 10                |
|                      | 8               | 6             | 14              | 31.1 | 12 | 11  | 17  | 24.58            | 8112992  | NPQE-D-G14F-Q8-P10              | 10                |
|                      | 10              | 8             | 17              | 33.1 | 12 | 11  | 17  | 26.76            | 8112993  | NPQE-D-G14F-Q10-P10             | 10                |
| G3/8                 | 12              | 10            | 20              | 35.6 | 12 | 11  | 21  | 47.23            | 8112994  | NPQE-D-G14F-Q12-P10             | 10                |
|                      | 6               | 4.5           | 12              | 30.1 | 13 | 12  | 21  | 32.67            | 8112995  | NPQE-D-G38F-Q6-P5               | 5                 |
|                      | 8               | 6             | 14              | 32.1 | 13 | 12  | 21  | 38.57            | 8112996  | NPQE-D-G38F-Q8-P5               | 5                 |
|                      | 10              | 8             | 17              | 34.1 | 13 | 12  | 21  | 36.86            | 8112997  | NPQE-D-G38F-Q10-P5              | 5                 |
| G1/2                 | 12              | 10            | 20              | 36.6 | 13 | 12  | 21  | 40.93            | 8112998  | NPQE-D-G38F-Q12-P5              | 5                 |
|                      | 12              | 10            | 20              | 38.6 | 15 | 14  | 24  | 48.53            | 8112999  | NPQE-D-G12F-Q12-P5              | 5                 |
|                      | 16              | 14            | 23.8            | 41.1 | 15 | 14  | 24  | 59.1             | 8113000  | NPQE-D-G12F-Q16-P5              | 5                 |

1) Container size

2) Not suitable for safety clip NPAP-QE

## Data sheet

## Push-in connector NPQE-D



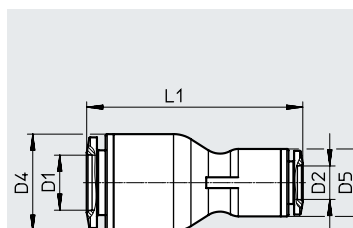
NPQE-D-Q...E

Reducing:

NPQE-D-Q4-Q3-P10

NPQE-D-Q6-Q4-P10

NPQE-D-Q14-Q12-P5



Reducing

## Dimensions and ordering data

| Pneumatic connection |                 | Nominal width | Dimensions [mm] |         |      | Weight/<br>piece | Part no. | Type                           | Pc. <sup>1)</sup> |
|----------------------|-----------------|---------------|-----------------|---------|------|------------------|----------|--------------------------------|-------------------|
| For tubing O.D.      | For tubing O.D. |               | D4<br>ø         | D5<br>ø | L1   |                  |          |                                |                   |
| D1                   | D2              | [mm]          |                 |         |      | [g]              |          |                                |                   |
| 3                    | 3               | 2.2           | –               | 6.2     | 20.2 | 1.03             | 8113103  | NPQE-D-Q3-E-P10                | 10                |
| 4                    | 4               | 2.3           | –               | 8.1     | 26   | 2.04             | 8113105  | NPQE-D-Q4-E-P10 <sup>2)</sup>  | 10                |
| 6                    | 6               | 4             | –               | 10.7    | 27.1 | 3.11             | 8113107  | NPQE-D-Q6-E-P10 <sup>2)</sup>  | 10                |
| 8                    | 8               | 7.1           | –               | 14      | 38.5 | 6.4              | 8113110  | NPQE-D-Q8-E-P10                | 10                |
| 10                   | 10              | 9.3           | –               | 18      | 47.2 | 12.54            | 8113113  | NPQE-D-Q10-E-P10               | 10                |
| 12                   | 12              | 10            | –               | 20.6    | 48.8 | 16.06            | 8113116  | NPQE-D-Q12-E-P10               | 10                |
| 14                   | 14              | 13            | –               | 23.5    | 50.8 | 19.88            | 8113119  | NPQE-D-Q14-E-P5                | 5                 |
| 16                   | 16              | 13            | –               | 25      | 50   | 22.4             | 8113120  | NPQE-D-Q16-E-P5                | 5                 |
| <b>Reducing</b>      |                 |               |                 |         |      |                  |          |                                |                   |
| 4                    | 3               | 2.3           | –               | 8.1     | 25.5 | 1.8              | 8113104  | NPQE-D-Q4-Q3-P10 <sup>2)</sup> | 10                |
| 6                    | 4               | 2.3           | –               | 10.7    | 26.9 | 3.02             | 8113106  | NPQE-D-Q6-Q4-P10 <sup>2)</sup> | 10                |
| 8                    | 4               | 3.5           | 14              | 10.5    | 35.5 | 5.29             | 8113108  | NPQE-D-Q8-Q4-P10               | 10                |
|                      | 6               | 5.3           | 14              | 12.5    | 34.6 | 5.57             | 8113109  | NPQE-D-Q8-Q6-P10               | 10                |
| 10                   | 6               | 5.3           | 18              | 12.5    | 40.1 | 8.95             | 8113111  | NPQE-D-Q10-Q6-P10              | 10                |
|                      | 8               | 7.1           | 18              | 14      | 39.5 | 9.07             | 8113112  | NPQE-D-Q10-Q8-P10              | 10                |
| 12                   | 8               | 7.1           | 20.6            | 14      | 43.9 | 11.98            | 8113114  | NPQE-D-Q12-Q8-P10              | 10                |
|                      | 10              | 9.3           | 20.6            | 18      | 44.4 | 13.7             | 8113115  | NPQE-D-Q12-Q10-P10             | 10                |
| 14                   | 10              | 9.3           | 23.5            | 18      | 48.4 | 18.22            | 8113117  | NPQE-D-Q14-Q10-P5              | 5                 |
|                      | 12              | 10            | –               | 23.5    | 50.4 | 22.59            | 8113118  | NPQE-D-Q14-Q12-P5              | 5                 |

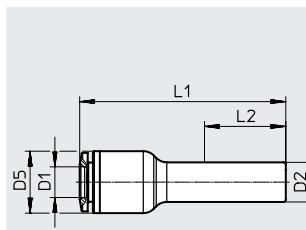
1) Container size

2) Not suitable for safety clip NPAP-QE

## Data sheet

## Push-in connector NPQE-D

With push-in sleeve

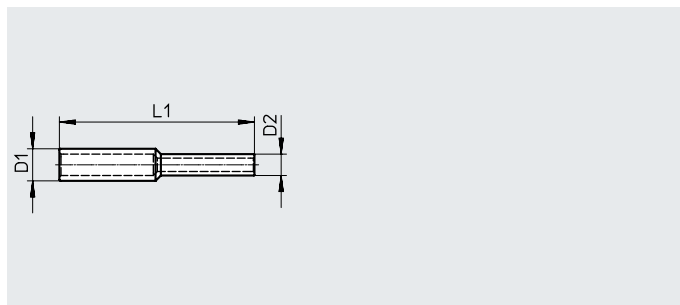
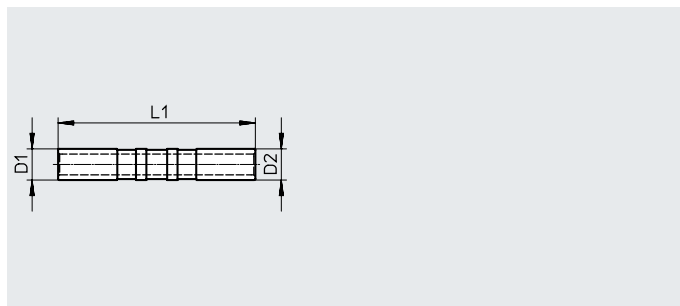


| Dimensions and ordering data |                |               |                 |      |      |               |          |                    |                   |
|------------------------------|----------------|---------------|-----------------|------|------|---------------|----------|--------------------|-------------------|
| Pneumatic connection         |                | Nominal width | Dimensions [mm] |      |      | Weight/ piece | Part no. | Type               | Pc. <sup>1)</sup> |
| For tubing O.D.              | Push-in sleeve |               | D5<br>Ø         | L1   | L2   |               |          |                    |                   |
| D1                           | D2             | [mm]          |                 |      |      | [g]           |          |                    |                   |
| 3                            | QS-4           | 2.5           | 6.2             | 27.6 | 12.4 | 0.7           | 8113183  | NPQE-D-Q3-S4-P10   | 10                |
| 4                            | QS-6           | 3.5           | 10.5            | 39.5 | 15.9 | 2.5           | 8113184  | NPQE-D-Q4-S6-P10   | 10                |
|                              | QS-8           | 3.5           | 13              | 41.5 | 18.3 | 3.97          | 8113185  | NPQE-D-Q4-S8-P10   | 10                |
| 6                            | QS-8           | 5             | 12.5            | 41.6 | 18.3 | 3.27          | 8113186  | NPQE-D-Q6-S8-P10   | 10                |
|                              | QS-10          | 5.5           | 12.5            | 42.4 | 21.1 | 4.42          | 8113187  | NPQE-D-Q6-S10-P10  | 10                |
|                              | QS-12          | 4.6           | 12.5            | 44   | 22.7 | 4.54          | 8113189  | NPQE-D-Q6-S12-P10  | 10                |
| 8                            | QS-10          | 7             | 14              | 46.8 | 21.1 | 5             | 8113188  | NPQE-D-Q8-S10-P10  | 10                |
|                              | QS-12          | 7.5           | 14              | 46.8 | 22.7 | 6.1           | 8113190  | NPQE-D-Q8-S12-P10  | 10                |
| 10                           | QS-12          | 8.5           | 18              | 52.3 | 22.7 | 8.37          | 8113191  | NPQE-D-Q10-S12-P10 | 10                |

1) Container size

## Data sheet

## Push-in sleeve NPQE-D



Reducing

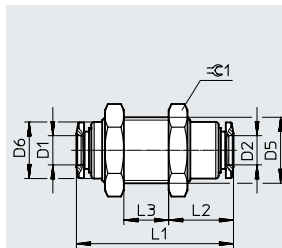
## Dimensions and ordering data

| Pneumatic connection |       | Nominal width<br>D1<br>[mm] | Dimensions [mm] | Weight/<br>piece<br>[g] | Part no. | Type               | Pc. <sup>1)</sup> |
|----------------------|-------|-----------------------------|-----------------|-------------------------|----------|--------------------|-------------------|
| Push-in sleeve<br>D2 | L1    |                             |                 |                         |          |                    |                   |
| QS-4                 | QS-4  | 2.5                         | 35              | 0.34                    | 8113210  | NPQE-D-S4-E-P10    | 10                |
| QS-6                 | QS-6  | 4                           | 38              | 0.72                    | 8113212  | NPQE-D-S6-E-P10    | 10                |
| QS-8                 | QS-8  | 6                           | 41.5            | 1.07                    | 8113214  | NPQE-D-S8-E-P10    | 10                |
| QS-10                | QS-10 | 7.5                         | 46              | 1.8                     | 8113216  | NPQE-D-S10-E-P10   | 10                |
| QS-12                | QS-12 | 9                           | 53              | 3.12                    | 8113219  | NPQE-D-S12-E-P10   | 10                |
| QS-16                | QS-16 | 13                          | 55.5            | 4.42                    | 8113221  | NPQE-D-S16-E-P5    | 5                 |
| Reducing             |       |                             |                 |                         |          |                    |                   |
| QS-6                 | QS-4  | 2.5                         | 36.5            | 0.56                    | 8113211  | NPQE-D-S6-S4-P10   | 10                |
| QS-8                 | QS-6  | 4                           | 40.5            | 1                       | 8113213  | NPQE-D-S8-S6-P10   | 10                |
| QS-10                | QS-8  | 6                           | 44              | 1.62                    | 8113215  | NPQE-D-S10-S8-P10  | 10                |
| QS-12                | QS-8  | 6                           | 47.5            | 2.3                     | 8113217  | NPQE-D-S12-S8-P10  | 10                |
|                      | QS-10 | 7.5                         | 49.5            | 2.71                    | 8113218  | NPQE-D-S12-S10-P10 | 10                |
| QS-16                | QS-12 | 9                           | 54.5            | 5.45                    | 8113220  | NPQE-D-S16-S12-P5  | 5                 |

1) Container size

## Data sheet

## Push-in bulkhead connector NPQE-H

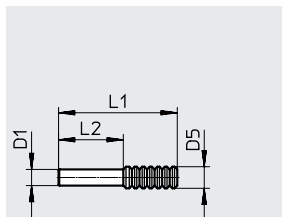
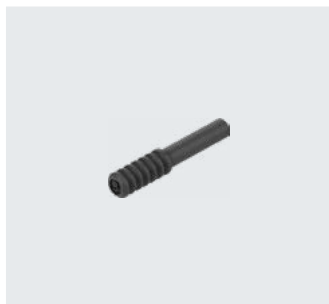


## Dimensions and ordering data

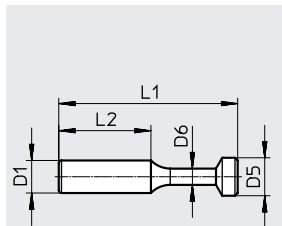
| Pneumatic connection |                 | Nominal width | Dimensions [mm] |         |      |      |      |    | Weight/<br>piece | Part no. | Type             | Pc. <sup>1)</sup> |
|----------------------|-----------------|---------------|-----------------|---------|------|------|------|----|------------------|----------|------------------|-------------------|
| For tubing O.D.      | For tubing O.D. |               | D5              | D6<br>ø | L1   | L2   | L3   | ±1 |                  |          |                  |                   |
| D1                   | D2              | [mm]          |                 |         |      |      |      |    | [g]              |          |                  |                   |
| 3                    | 3               | 2.2           | M8x0.75         | 5.5     | 22.4 | 8.5  | 7.6  | 10 | 6.1              | 8113121  | NPQE-H-Q3-E-P10  | 10                |
| 4                    | 4               | 2.5           | M12x1           | 10      | 31.1 | 11.9 | 10.7 | 14 | 9.74             | 8113122  | NPQE-H-Q4-E-P10  | 10                |
| 6                    | 6               | 4.5           | M14x1           | 12      | 33.3 | 13.7 | 9.5  | 17 | 18.64            | 8113123  | NPQE-H-Q6-E-P10  | 10                |
| 8                    | 8               | 6             | M16x1           | 14      | 37.7 | 16.2 | 9.8  | 19 | 24.76            | 8113124  | NPQE-H-Q8-E-P10  | 10                |
| 10                   | 10              | 8             | M20x1           | 17      | 41.8 | 16.9 | 11.9 | 24 | 48.9             | 8113125  | NPQE-H-Q10-E-P10 | 10                |
| 12                   | 12              | 10            | M22x1           | 20      | 46.9 | 18.8 | 14.8 | 27 | 56.06            | 8113126  | NPQE-H-Q12-E-P10 | 10                |

1) Container size

## Blanking plug NPQE-P



NPQE-P-S3-P10



## Dimensions and ordering data

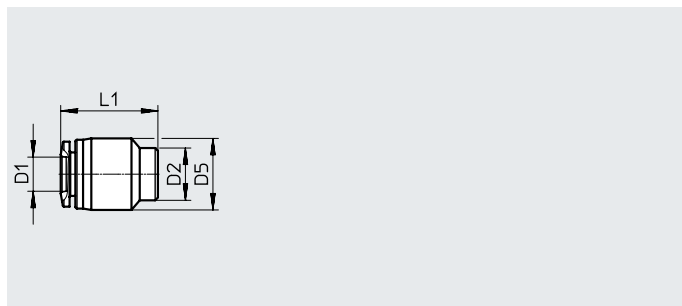
| Pneumatic connection |  | Dimensions [mm] |    |    |      | Weight/<br>piece | Part no. | Type           | Pc. <sup>1)</sup> |
|----------------------|--|-----------------|----|----|------|------------------|----------|----------------|-------------------|
| Push-in sleeve       |  | D5              | D6 | L1 | L2   |                  |          |                |                   |
| D1                   |  | ø               | ø  |    |      | [g]              |          |                |                   |
| QS-3                 |  | 4               | –  | 22 | 12   | 0.25             | 8113203  | NPQE-P-S3-P10  | 10                |
| QS-4                 |  | 5               | 3  | 28 | 15   | 0.35             | 8113204  | NPQE-P-S4-P10  | 10                |
| QS-6                 |  | 7               | 3  | 33 | 17   | 0.9              | 8113205  | NPQE-P-S6-P10  | 10                |
| QS-8                 |  | 9               | 4  | 37 | 18   | 1.3              | 8113206  | NPQE-P-S8-P10  | 10                |
| QS-10                |  | 11              | 5  | 42 | 20.5 | 1.7              | 8113207  | NPQE-P-S10-P10 | 10                |
| QS-12                |  | 13              | 6  | 42 | 23   | 2.8              | 8113208  | NPQE-P-S12-P10 | 10                |
| QS-16                |  | 17              | 8  | 46 | 24   | 5.07             | 8113209  | NPQE-P-S16-P5  | 5                 |

1) Container size



## Data sheet

## Push-in cap NPQE-P



## Dimensions and ordering data

| Pneumatic connection  | Dimensions [mm] |         |      | Weight/<br>piece<br>[g] | Part no. | Type           | Pc. <sup>1)</sup> |
|-----------------------|-----------------|---------|------|-------------------------|----------|----------------|-------------------|
| For tubing O.D.<br>D1 | D2<br>ø         | D5<br>ø | L1   |                         |          |                |                   |
| 3                     | 4.4             | 6.2     | 10.6 | 0.51                    | 8113171  | NPQE-P-Q3-P10  | 10                |
| 4                     | 7.5             | 11      | 16.6 | 2                       | 8113172  | NPQE-P-Q4-P10  | 10                |
| 6                     | 9.5             | 13      | 17.7 | 2.7                     | 8113173  | NPQE-P-Q6-P10  | 10                |
| 8                     | 11.2            | 15      | 20.3 | 3.71                    | 8113174  | NPQE-P-Q8-P10  | 10                |
| 10                    | 13.8            | 18.4    | 23.1 | 6.42                    | 8113175  | NPQE-P-Q10-P10 | 10                |
| 12                    | 16.3            | 21.5    | 25.2 | 9.03                    | 8113176  | NPQE-P-Q12-P10 | 10                |

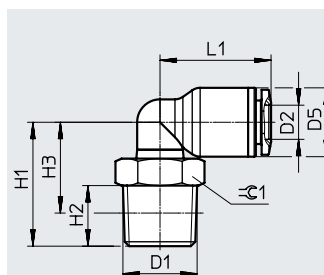
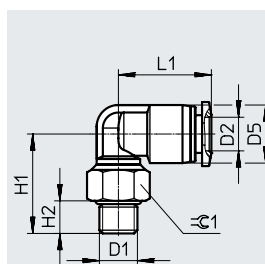
1) Container size

## Data sheet

## Push-in L-fitting NPQE-L

Male thread with external hex

Can be aligned after mounting



## Dimensions and ordering data

| Pneumatic connection                   |                 | Nominal width | Dimensions [mm] |      |      |      |      |       | Weight/<br>piece | Part no. | Type                           | Pc. <sup>1)</sup> |
|----------------------------------------|-----------------|---------------|-----------------|------|------|------|------|-------|------------------|----------|--------------------------------|-------------------|
| Male thread                            | For tubing O.D. |               | D5<br>ø         | H1   | H2   | H3   | L1   | ≈ 1/4 |                  |          |                                |                   |
| D1                                     | D2              | [mm]          |                 |      |      |      |      |       | [g]              |          |                                |                   |
| <b>Metric thread with sealing ring</b> |                 |               |                 |      |      |      |      |       |                  |          |                                |                   |
| M3                                     | 3               | 1             | 6.2             | 12.7 | 3    | –    | 11.3 | 5.5   | 1.42             | 8112935  | NPQE-L-M3-Q3-P10               | 10                |
|                                        | 4               | 1             | 8.1             | 14.1 | 3    | –    | 16.4 | 8     | 3.62             | 8112936  | NPQE-L-M3-Q4-P10 <sup>2)</sup> | 10                |
| M5                                     | 3               | 2.2           | 6.2             | 14.6 | 3.5  | –    | 11.3 | 8     | 2.77             | 8112937  | NPQE-L-M5-Q3-P10               | 10                |
|                                        | 4               | 2.3           | 8.1             | 14.6 | 3.5  | –    | 16.4 | 8     | 3.55             | 8112938  | NPQE-L-M5-Q4-P10 <sup>2)</sup> | 10                |
|                                        | 6               | 2.3           | 10.7            | 16.3 | 3.5  | –    | 17.1 | 8     | 4.18             | 8112939  | NPQE-L-M5-Q6-P10 <sup>2)</sup> | 10                |
| M7                                     | 4               | 2.3           | 8.1             | 16.6 | 6    | –    | 16.4 | 10    | 6.4              | 8112940  | NPQE-L-M7-Q4-P10 <sup>2)</sup> | 10                |
|                                        | 6               | 2.3           | 10.7            | 18.3 | 6    | –    | 17.1 | 10    | 7.03             | 8112941  | NPQE-L-M7-Q6-P10 <sup>2)</sup> | 10                |
| <b>R thread</b>                        |                 |               |                 |      |      |      |      |       |                  |          |                                |                   |
| R1/8                                   | 4               | 3.4           | 10.5            | 19   | 8    | 15   | 18.8 | 10    | 7.9              | 8112942  | NPQE-L-R18-Q4-P10              | 10                |
|                                        | 6               | 4             | 12.5            | 20   | 8    | 16   | 20.1 | 10    | 8.69             | 8112943  | NPQE-L-R18-Q6-P10              | 10                |
|                                        | 8               | 6             | 14              | 23.4 | 8    | 19.4 | 22.5 | 10    | 6.94             | 8112944  | NPQE-L-R18-Q8-P10              | 10                |
|                                        | 10              | 6.5           | 18              | 25.2 | 8.5  | 21.2 | 27   | 17    | 22.35            | 8112945  | NPQE-L-R18-Q10-P10             | 10                |
|                                        | 12              | 6.5           | 20.6            | 26.7 | 8.5  | 22.7 | 28.5 | 17    | 24.01            | 8112946  | NPQE-L-R18-Q12-P10             | 10                |
| R1/4                                   | 4               | 3.4           | 10.5            | 21.5 | 11   | 15.5 | 18.8 | 14    | 14.27            | 8112947  | NPQE-L-R14-Q4-P10              | 10                |
|                                        | 6               | 4             | 12.5            | 22.5 | 11   | 16.5 | 20.1 | 14    | 15.06            | 8112948  | NPQE-L-R14-Q6-P10              | 10                |
|                                        | 8               | 6             | 14              | 23   | 11   | 17   | 22.5 | 14    | 7.4              | 8112949  | NPQE-L-R14-Q8-P10              | 10                |
|                                        | 10              | 8.5           | 18              | 28.3 | 11.5 | 22.3 | 27   | 17    | 26.25            | 8112950  | NPQE-L-R14-Q10-P10             | 10                |
|                                        | 12              | 8.5           | 20.6            | 29.8 | 11.5 | 23.8 | 28.5 | 17    | 27.91            | 8112951  | NPQE-L-R14-Q12-P10             | 10                |
| R3/8                                   | 6               | 4             | 12.5            | 24   | 12   | 17.6 | 20.1 | 17    | 23.96            | 8112952  | NPQE-L-R38-Q6-P5               | 5                 |
|                                        | 8               | 6             | 14              | 24.5 | 12   | 18.1 | 22.5 | 17    | 22.44            | 8112953  | NPQE-L-R38-Q8-P5               | 5                 |
|                                        | 10              | 9.3           | 18              | 26.3 | 12   | 19.9 | 27   | 17    | 26.05            | 8112954  | NPQE-L-R38-Q10-P5              | 5                 |
|                                        | 12              | 9.5           | 20.6            | 27.8 | 12   | 21.4 | 28.5 | 17    | 27.71            | 8112955  | NPQE-L-R38-Q12-P5              | 5                 |
|                                        | 14              | 11.5          | 23.5            | 36.2 | 12.5 | 29.8 | 33.4 | 20    | 41.23            | 8112956  | NPQE-L-R38-Q14-P5              | 5                 |
|                                        | 16              | 11.5          | 25              | 35.7 | 12.5 | 29.3 | 33.5 | 20    | 40.97            | 8112957  | NPQE-L-R38-Q16-P5              | 5                 |
| R1/2                                   | 6               | 4             | 12.5            | 27   | 15   | 18.8 | 20.1 | 21    | 44.89            | 8112958  | NPQE-L-R12-Q6-P5               | 5                 |
|                                        | 8               | 6             | 14              | 27.5 | 15   | 19.3 | 22.5 | 21    | 39.94            | 8112959  | NPQE-L-R12-Q8-P5               | 5                 |
|                                        | 10              | 9.3           | 18              | 29.3 | 15   | 21.1 | 27   | 21    | 41.85            | 8112960  | NPQE-L-R12-Q10-P5              | 5                 |
|                                        | 12              | 9.5           | 20.6            | 30.8 | 15   | 22.6 | 28.5 | 21    | 43.51            | 8112961  | NPQE-L-R12-Q12-P5              | 5                 |
|                                        | 14              | 13            | 23.5            | 38.7 | 15   | 30.5 | 33.4 | 21    | 52.73            | 8112962  | NPQE-L-R12-Q14-P5              | 5                 |
|                                        | 16              | 13            | 25              | 38.2 | 15   | 30   | 33.5 | 21    | 52.47            | 8112963  | NPQE-L-R12-Q16-P5              | 5                 |

1) Container size

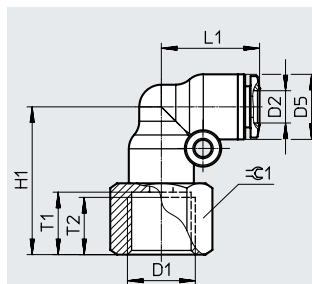
2) Not suitable for safety clip NPAP-QE

## Data sheet

## Push-in L-fitting NPQE-L

Female thread with external hex

Can be aligned after mounting

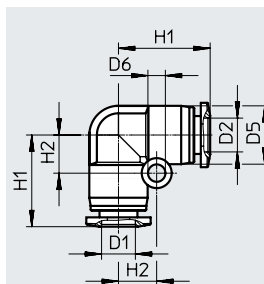


| Dimensions and ordering data |                 |               |                 |      |      |    |     |     |                  |          |                     |                   |
|------------------------------|-----------------|---------------|-----------------|------|------|----|-----|-----|------------------|----------|---------------------|-------------------|
| Pneumatic connection         |                 | Nominal width | Dimensions [mm] |      |      |    |     |     | Weight/<br>piece | Part no. | Type                | Pc. <sup>1)</sup> |
| Female thread                | For tubing O.D. |               | D5<br>Ø         | H1   | L1   | T1 | T2  | ± 1 |                  |          |                     |                   |
| D1                           | D2              | [mm]          |                 |      |      |    |     |     | [g]              |          |                     |                   |
| <b>Metric thread</b>         |                 |               |                 |      |      |    |     |     |                  |          |                     |                   |
| M5                           | 4               | 2.5           | 10.5            | 18.5 | 17.5 | 6  | 5.5 | 10  | 8.07             | 8113001  | NPQE-L-M5F-Q4-P10   | 10                |
| <b>G thread</b>              |                 |               |                 |      |      |    |     |     |                  |          |                     |                   |
| G1/8                         | 4               | 2.5           | 10.5            | 24   | 17.5 | 9  | 8   | 14  | 14.67            | 8113002  | NPQE-L-G18F-Q4-P10  | 10                |
|                              | 6               | 4.5           | 12.5            | 25.4 | 18.7 | 9  | 8   | 14  | 16.97            | 8113003  | NPQE-L-G18F-Q6-P10  | 10                |
|                              | 8               | 6             | 14              | 28.3 | 22.5 | 9  | 8   | 14  | 20.2             | 8113004  | NPQE-L-G18F-Q8-P10  | 10                |
|                              | 10              | 8             | 18              | 27.3 | 27.2 | 9  | 8   | 17  | 28.25            | 8113005  | NPQE-L-G18F-Q10-P10 | 10                |
| G1/4                         | 6               | 4.5           | 12.5            | 28.4 | 18.7 | 12 | 11  | 17  | 22.97            | 8113006  | NPQE-L-G14F-Q6-P10  | 10                |
|                              | 8               | 6             | 14              | 31.3 | 22.5 | 12 | 11  | 17  | 25.7             | 8113007  | NPQE-L-G14F-Q8-P10  | 10                |
|                              | 10              | 8.5           | 18              | 35.3 | 27.2 | 12 | 11  | 17  | 33.76            | 8113008  | NPQE-L-G14F-Q10-P10 | 10                |
| G3/8                         | 8               | 6             | 14              | 33   | 22.5 | 13 | 12  | 21  | 36.2             | 8113009  | NPQE-L-G38F-Q8-P5   | 5                 |
|                              | 10              | 8             | 18              | 37.3 | 27.2 | 13 | 12  | 21  | 44.76            | 8113010  | NPQE-L-G38F-Q10-P5  | 5                 |

1) Container size

## Data sheet

## Push-in L-connector NPQE-L



## Dimensions and ordering data

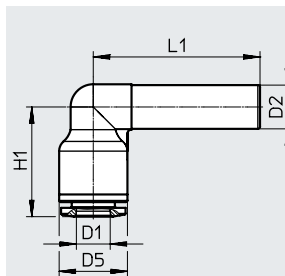
| Pneumatic connection |                 | Nominal width | Dimensions [mm] |         |      |      | Weight/<br>piece | Part no. | Type                          | Pc. <sup>1)</sup> |
|----------------------|-----------------|---------------|-----------------|---------|------|------|------------------|----------|-------------------------------|-------------------|
| For tubing O.D.      | For tubing O.D. |               | D5<br>ø         | D6<br>ø | H1   | H2   |                  |          |                               |                   |
| D1                   | D2              | [mm]          |                 |         |      |      | [g]              |          |                               |                   |
| 3                    | 3               | 2.2           | 6.2             | 3.2     | 11.6 | 4.7  | 1.13             | 8113127  | NPQE-L-Q3-E-P10               | 10                |
| 4                    | 4               | 2.3           | 8.1             | 3.2     | 15.1 | 6    | 2.31             | 8113128  | NPQE-L-Q4-E-P10 <sup>2)</sup> | 10                |
| 6                    | 6               | 4             | 10.7            | 3.2     | 16.8 | 7    | 4.21             | 8113129  | NPQE-L-Q6-E-P10 <sup>2)</sup> | 10                |
| 8                    | 8               | 7.1           | 14              | 3.3     | 22.5 | 10   | 7                | 8113130  | NPQE-L-Q8-E-P10               | 10                |
| 10                   | 10              | 9.3           | 18              | 4.3     | 27.3 | 12   | 13.54            | 8113131  | NPQE-L-Q10-E-P10              | 10                |
| 12                   | 12              | 10            | 20.6            | 4.3     | 29.3 | 13.5 | 17.96            | 8113132  | NPQE-L-Q12-E-P10              | 10                |
| 14                   | 14              | 13            | 23.5            | 4.3     | 31.9 | 13.5 | 25.59            | 8113133  | NPQE-L-Q14-E-P5               | 5                 |
| 16                   | 16              | 14.3          | 25              | 4.3     | 32.5 | 15.5 | 25               | 8113134  | NPQE-L-Q16-E-P5               | 5                 |

1) Container size

2) Not suitable for safety clip NPAP-QE

## Push-in L-connector NPQE-L

With push-in sleeve



## Dimensions and ordering data

| Pneumatic connection |                | Nominal width | Dimensions [mm] |      |      | Weight/<br>piece | Part no. | Type                           | Pc. <sup>1)</sup> |
|----------------------|----------------|---------------|-----------------|------|------|------------------|----------|--------------------------------|-------------------|
| For tubing O.D.      | Push-in sleeve |               | D5<br>ø         | H1   | L1   |                  |          |                                |                   |
| D1                   | D2             | [mm]          |                 |      |      | [g]              |          |                                |                   |
| 3                    | QS-3           | 1.5           | 6.2             | 11.3 | 22.5 | 0.73             | 8113192  | NPQE-L-Q3-S3-P10               | 10                |
|                      | QS-4           | 2.2           | 6.2             | 11.3 | 25   | 0.93             | 8113193  | NPQE-L-Q3-S4-P10               | 10                |
| 4                    | QS-4           | 2.5           | 8.1             | 14.9 | 25   | 1.41             | 8113194  | NPQE-L-Q4-S4-P10 <sup>2)</sup> | 10                |
|                      | QS-6           | 3             | 8.1             | 14.9 | 29.5 | 1.88             | 8113195  | NPQE-L-Q4-S6-P10 <sup>2)</sup> | 10                |
| 6                    | QS-6           | 4             | 10.7            | 17.1 | 27   | 2.43             | 8113196  | NPQE-L-Q6-S6-P10 <sup>2)</sup> | 10                |
|                      | QS-8           | 4             | 12.5            | 20.1 | 30.5 | 3.67             | 8113197  | NPQE-L-Q6-S8-P10               | 10                |
| 8                    | QS-8           | 6             | 14              | 22.5 | 30.5 | 4.71             | 8113198  | NPQE-L-Q8-S8-P10               | 10                |
|                      | QS-10          | 6             | 14              | 22.5 | 33.5 | 5.16             | 8113199  | NPQE-L-Q8-S10-P10              | 10                |
| 10                   | QS-10          | 9.3           | 18              | 27   | 34.5 | 8.57             | 8113200  | NPQE-L-Q10-S10-P10             | 10                |
|                      | QS-12          | 9.3           | 18              | 27   | 39   | 8.84             | 8113201  | NPQE-L-Q10-S12-P10             | 10                |
| 12                   | QS-12          | 9.5           | 20.6            | 28.5 | 39.2 | 12.04            | 8113202  | NPQE-L-Q12-S12-P10             | 10                |

1) Container size

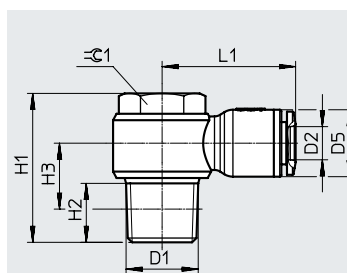
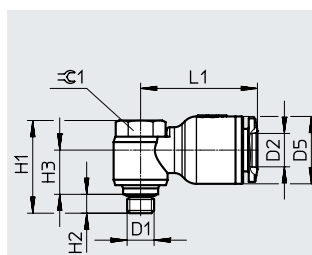
2) Not suitable for safety clip NPAP-QE

## Data sheet

## Push-in L-fitting NPQE-LH

Hollow bolt with external hex

Can be aligned after mounting



| Dimensions and ordering data           |                 |               |                 |      |     |      |      |                            |               |          |                     |                   |
|----------------------------------------|-----------------|---------------|-----------------|------|-----|------|------|----------------------------|---------------|----------|---------------------|-------------------|
| Pneumatic connection                   |                 | Nominal width | Dimensions [mm] |      |     |      |      |                            | Weight/ piece | Part no. | Type                | Pc. <sup>1)</sup> |
| Male thread                            | For tubing O.D. |               | D5<br>Ø         | H1   | H2  | H3   | L1   | <math>\varnothing 1</math> |               |          |                     |                   |
| D1                                     | D2              | [mm]          |                 |      |     |      |      |                            | [g]           |          |                     |                   |
| <b>Metric thread with sealing ring</b> |                 |               |                 |      |     |      |      |                            |               |          |                     |                   |
| M5                                     | 4               | 1.8           | 10.5            | 17.2 | 3.5 | 7.2  | 20   | 8                          | 6.66          | 8113030  | NPQE-LH-M5-Q4-P10   | 10                |
| M5                                     | 6               | 1.8           | 12.5            | 17.2 | 3.5 | 8.2  | 21.9 | 8                          | 7.06          | 8113031  | NPQE-LH-M5-Q6-P10   | 10                |
| <b>R thread</b>                        |                 |               |                 |      |     |      |      |                            |               |          |                     |                   |
| R1/8                                   | 4               | 3             | 10.5            | 24   | 8   | 11.5 | 22.3 | 10                         | 11.35         | 8113032  | NPQE-LH-R18-Q4-P10  | 10                |
|                                        | 6               | 4             | 12.5            | 24   | 8   | 11.5 | 22.9 | 10                         | 11.89         | 8113033  | NPQE-LH-R18-Q6-P10  | 10                |
|                                        | 8               | 4             | 14              | 24   | 8   | 12.3 | 25.3 | 10                         | 12.71         | 8113034  | NPQE-LH-R18-Q8-P10  | 10                |
|                                        | 10              | 4             | 18              | 24   | 8   | 14.2 | 30.2 | 10                         | 15.87         | 8113035  | NPQE-LH-R18-Q10-P10 | 10                |
| R1/4                                   | 4               | 3.5           | 10.5            | 27.8 | 11  | 12.3 | 24.1 | 14                         | 23.2          | 8113036  | NPQE-LH-R14-Q4-P10  | 10                |
|                                        | 6               | 4             | 12.5            | 27.8 | 11  | 12.3 | 25   | 14                         | 23.74         | 8113037  | NPQE-LH-R14-Q6-P10  | 10                |
|                                        | 8               | 5             | 14              | 27.8 | 11  | 13.3 | 28.4 | 14                         | 24.54         | 8113038  | NPQE-LH-R14-Q8-P10  | 10                |
|                                        | 10              | 5             | 18              | 27.8 | 11  | 15   | 32   | 14                         | 27.59         | 8113039  | NPQE-LH-R14-Q10-P10 | 10                |
|                                        | 12              | 5             | 20.6            | 27.8 | 11  | 16.3 | 33.2 | 14                         | 29.64         | 8113040  | NPQE-LH-R14-Q12-P10 | 10                |
| R3/8                                   | 6               | 4             | 12.5            | 33.4 | 12  | 14.2 | 26.5 | 19                         | 41            | 8113041  | NPQE-LH-R38-Q6-P5   | 5                 |
|                                        | 8               | 5             | 14              | 33.4 | 12  | 14   | 29.3 | 19                         | 41.8          | 8113042  | NPQE-LH-R38-Q8-P5   | 5                 |
|                                        | 10              | 6.5           | 18              | 33.4 | 12  | 16   | 32.5 | 19                         | 44.66         | 8113043  | NPQE-LH-R38-Q10-P5  | 5                 |
|                                        | 12              | 6.5           | 20.6            | 33.4 | 12  | 17.3 | 35.3 | 19                         | 46.87         | 8113044  | NPQE-LH-R38-Q12-P5  | 5                 |
| R1/2                                   | 10              | 8             | 18              | 40.1 | 15  | 17.6 | 35.5 | 24                         | 84.64         | 8113045  | NPQE-LH-R12-Q10-P5  | 5                 |
|                                        | 12              | 8             | 20.6            | 40.1 | 15  | 18.9 | 36.3 | 24                         | 85.18         | 8113046  | NPQE-LH-R12-Q12-P5  | 5                 |
|                                        | 16              | 8             | 25              | 49   | 15  | 21.8 | 37.5 | 24                         | 99.93         | 8113047  | NPQE-LH-R12-Q16-P5  | 5                 |

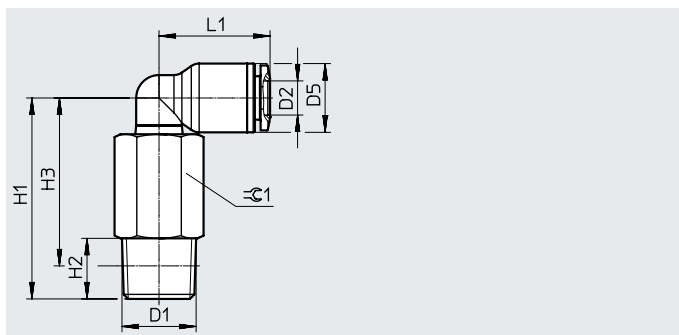
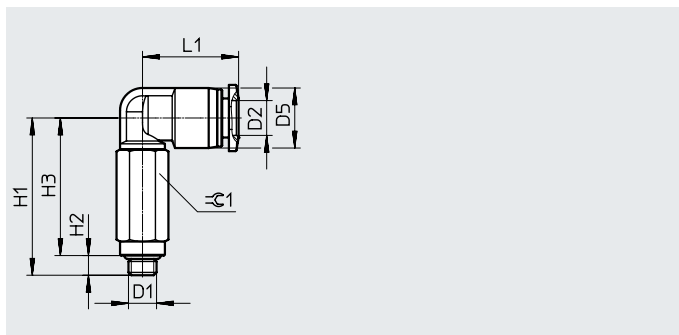
1) Container size

## Data sheet

## Push-in L-fitting, long NPQE-LL

Male thread with external hex

Can be aligned after mounting



| Dimensions and ordering data           |                 |               |                 |      |      |      |      |    |               |          |                                 |                   |
|----------------------------------------|-----------------|---------------|-----------------|------|------|------|------|----|---------------|----------|---------------------------------|-------------------|
| Pneumatic connection                   |                 | Nominal width | Dimensions [mm] |      |      |      |      |    | Weight/ piece | Part no. | Type                            | Pc. <sup>1)</sup> |
| Male thread                            | For tubing O.D. |               | D5<br>ø         | H1   | H2   | H3   | L1   | ±1 |               |          |                                 |                   |
| D1                                     | D2              | [mm]          |                 |      |      |      |      |    | [g]           |          |                                 |                   |
| <b>Metric thread with sealing ring</b> |                 |               |                 |      |      |      |      |    |               |          |                                 |                   |
| M3                                     | 4               | 1             | 8.1             | 23.1 | 3    | 20.1 | 16.4 | 8  | 7.02          | 8113011  | NPQE-LL-M3-Q4-P10 <sup>2)</sup> | 10                |
| M5                                     | 4               | 2.3           | 8.1             | 26.3 | 3.5  | 22.8 | 16.4 | 8  | 8.79          | 8113012  | NPQE-LL-M5-Q4-P10 <sup>2)</sup> | 10                |
|                                        | 6               | 2.3           | 10.7            | 28   | 3.5  | 24.5 | 17.1 | 8  | 9.34          | 8113013  | NPQE-LL-M5-Q6-P10 <sup>2)</sup> | 10                |
| M7                                     | 4               | 2.3           | 8.1             | 29.1 | 6    | 23.1 | 16.4 | 10 | 14.09         | 8113014  | NPQE-LL-M7-Q4-P10 <sup>2)</sup> | 10                |
|                                        | 6               | 2.3           | 10.7            | 30.8 | 6    | 24.8 | 17.1 | 10 | 14.73         | 8113015  | NPQE-LL-M7-Q6-P10 <sup>2)</sup> | 10                |
| <b>R thread</b>                        |                 |               |                 |      |      |      |      |    |               |          |                                 |                   |
| R1/8                                   | 4               | 3.4           | 10.5            | 33   | 8    | 29   | 18.8 | 10 | 13.92         | 8113016  | NPQE-LL-R18-Q4-P10              | 10                |
|                                        | 6               | 4             | 12.5            | 34   | 8    | 30   | 20.1 | 10 | 14.86         | 8113017  | NPQE-LL-R18-Q6-P10              | 10                |
|                                        | 8               | 6             | 14              | 39.2 | 8    | 35.2 | 22.5 | 10 | 15.37         | 8113018  | NPQE-LL-R18-Q8-P10              | 10                |
|                                        | 10              | 6.5           | 18              | 47.3 | 8.5  | 43.3 | 26.9 | 17 | 51.29         | 8113019  | NPQE-LL-R18-Q10-P10             | 10                |
|                                        | 12              | 6.5           | 20.6            | 48.8 | 8.5  | 44.8 | 28.4 | 17 | 54.95         | 8113020  | NPQE-LL-R18-Q12-P10             | 10                |
| R1/4                                   | 4               | 3.4           | 10.5            | 35.5 | 11   | 29.5 | 18.8 | 14 | 29.73         | 8113021  | NPQE-LL-R14-Q4-P10              | 10                |
|                                        | 6               | 4             | 12.5            | 36.5 | 11   | 30.5 | 20   | 14 | 30.73         | 8113022  | NPQE-LL-R14-Q6-P10              | 10                |
|                                        | 8               | 6             | 14              | 38.8 | 11   | 32.8 | 22.5 | 14 | 32.39         | 8113023  | NPQE-LL-R14-Q8-P10              | 10                |
|                                        | 10              | 8.5           | 18              | 50.4 | 11.5 | 44.4 | 26.9 | 17 | 57.18         | 8113024  | NPQE-LL-R14-Q10-P10             | 10                |
|                                        | 12              | 8.5           | 20.6            | 51.9 | 11.5 | 45.9 | 28.4 | 17 | 60.84         | 8113025  | NPQE-LL-R14-Q12-P10             | 10                |
| R3/8                                   | 8               | 6             | 14              | 40.3 | 12   | 33.9 | 22.5 | 17 | 45.83         | 8113026  | NPQE-LL-R38-Q8-P5               | 5                 |
|                                        | 10              | 9.3           | 18              | 48.4 | 12   | 42   | 26.9 | 17 | 54.49         | 8113027  | NPQE-LL-R38-Q10-P5              | 5                 |
|                                        | 12              | 9.5           | 20.6            | 49.9 | 12   | 43.5 | 28.4 | 17 | 58.15         | 8113028  | NPQE-LL-R38-Q12-P5              | 5                 |
| R1/2                                   | 12              | 9.5           | 20.6            | 52.9 | 15   | 44.7 | 28.4 | 21 | 82.54         | 8113029  | NPQE-LL-R12-Q12-P5              | 5                 |

1) Container size

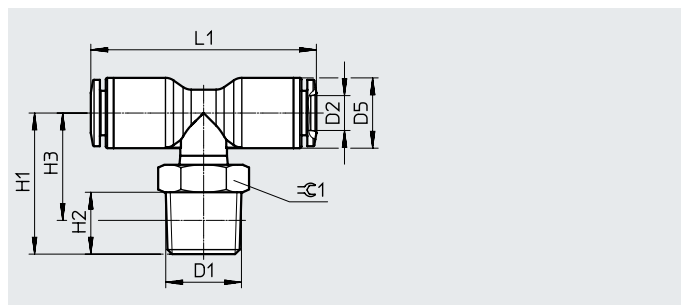
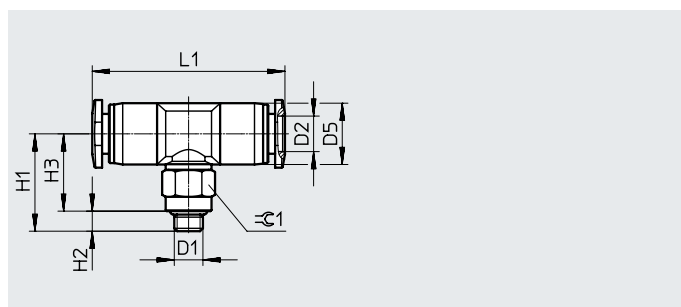
2) Not suitable for safety clip NPAP-QE

## Data sheet

## Push-in T-fitting NPQE-T

Male thread with external hex

Can be aligned after mounting



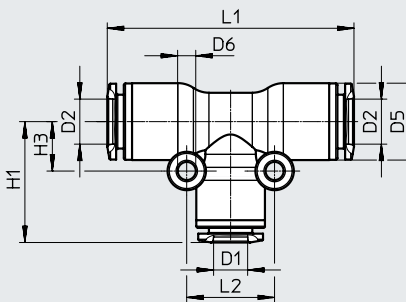
| Dimensions and ordering data    |                 |               |                 |      |      |      |      |    |               |          |                                |                   |
|---------------------------------|-----------------|---------------|-----------------|------|------|------|------|----|---------------|----------|--------------------------------|-------------------|
| Pneumatic connection            |                 | Nominal width | Dimensions [mm] |      |      |      |      |    | Weight/ piece | Part no. | Type                           | Pc. <sup>1)</sup> |
| Male thread                     | For tubing O.D. |               | D5<br>Ø         | H1   | H2   | H3   | L1   | ±1 |               |          |                                |                   |
| D1                              | D2              | [mm]          |                 |      |      |      |      |    | [g]           |          |                                |                   |
| Metric thread with sealing ring |                 |               |                 |      |      |      |      |    |               |          |                                |                   |
| M3                              | 4               | 1             | 8.1             | 15.3 | 3    | 12.3 | 30.2 | 8  | 4.63          | 8113048  | NPQE-T-M3-Q4-P10 <sup>2)</sup> | 10                |
| M5                              | 4               | 2.2           | 8.1             | 15.8 | 3.5  | 12.3 | 30.2 | 8  | 3.94          | 8113049  | NPQE-T-M5-Q4-P10 <sup>2)</sup> | 10                |
|                                 | 6               | 2.2           | 10.7            | 17   | 3.5  | 13.5 | 33.6 | 8  | 6.03          | 8113050  | NPQE-T-M5-Q6-P10 <sup>2)</sup> | 10                |
| R thread                        |                 |               |                 |      |      |      |      |    |               |          |                                |                   |
| R1/8                            | 4               | 3.4           | 10.5            | 21.5 | 8    | 17.5 | 36   | 10 | 8.93          | 8113051  | NPQE-T-R18-Q4-P10              | 10                |
|                                 | 6               | 4             | 12.5            | 22.6 | 8    | 18.6 | 40.2 | 10 | 10.34         | 8113052  | NPQE-T-R18-Q6-P10              | 10                |
|                                 | 8               | 6             | 14              | 27.1 | 8    | 23.1 | 45.4 | 10 | 12.67         | 8113053  | NPQE-T-R18-Q8-P10              | 10                |
|                                 | 10              | 6.5           | 18              | 28.5 | 8.5  | 24.5 | 54   | 17 | 26.64         | 8113054  | NPQE-T-R18-Q10-P10             | 10                |
|                                 | 12              | 6.5           | 20.6            | 29.8 | 8.5  | 25.8 | 58.8 | 17 | 32.06         | 8113055  | NPQE-T-R18-Q12-P10             | 10                |
| R1/4                            | 4               | 3.4           | 10.5            | 24   | 11   | 18   | 36   | 14 | 16.32         | 8113056  | NPQE-T-R14-Q4-P10              | 10                |
|                                 | 6               | 4             | 12.5            | 25.1 | 11   | 19.1 | 40.2 | 14 | 17.84         | 8113057  | NPQE-T-R14-Q6-P10              | 10                |
|                                 | 8               | 6             | 14              | 26.7 | 11   | 20.7 | 45.4 | 14 | 18.2          | 8113058  | NPQE-T-R14-Q8-P10              | 10                |
|                                 | 10              | 8.5           | 18              | 31.6 | 11.5 | 25.6 | 54   | 17 | 30.34         | 8113059  | NPQE-T-R14-Q10-P10             | 10                |
|                                 | 12              | 8.5           | 20.6            | 32.9 | 11.5 | 26.9 | 58.8 | 17 | 35.76         | 8113060  | NPQE-T-R14-Q12-P10             | 10                |
| R3/8                            | 8               | 6             | 14              | 28.2 | 12   | 21.8 | 45.4 | 17 | 26.2          | 8113061  | NPQE-T-R38-Q8-P5               | 5                 |
|                                 | 10              | 9.3           | 18              | 29.6 | 12   | 23.2 | 54   | 17 | 30.44         | 8113062  | NPQE-T-R38-Q10-P5              | 5                 |
|                                 | 12              | 9.5           | 20.6            | 30.9 | 12   | 24.5 | 58.8 | 17 | 35.86         | 8113063  | NPQE-T-R38-Q12-P5              | 5                 |
| R1/2                            | 10              | 9.3           | 18              | 32.6 | 15   | 24.4 | 54   | 21 | 46.14         | 8113064  | NPQE-T-R12-Q10-P5              | 5                 |
|                                 | 12              | 9.5           | 20.6            | 33.9 | 15   | 25.7 | 58.8 | 21 | 51.56         | 8113065  | NPQE-T-R12-Q12-P5              | 5                 |
|                                 | 16              | 13            | 25              | 40.7 | 15   | 32.5 | 69   | 21 | 65.6          | 8113066  | NPQE-T-R12-Q16-P5              | 5                 |

1) Container size

2) Not suitable for safety clip NPAP-QE

## Data sheet

## Push-in T-connector NPQE-T



| Dimensions and ordering data |                 |               |                 |         |      |      |      |     |                  |          |                                |                   |
|------------------------------|-----------------|---------------|-----------------|---------|------|------|------|-----|------------------|----------|--------------------------------|-------------------|
| Pneumatic connection         |                 | Nominal width | Dimensions [mm] |         |      |      |      |     | Weight/<br>piece | Part no. | Type                           | Pc. <sup>1)</sup> |
| For tubing O.D.              | For tubing O.D. |               | D5<br>ø         | D6<br>ø | H1   | H3   | L1   | L2  |                  |          |                                |                   |
| D1                           | D2              | [mm]          |                 |         |      |      |      |     | [g]              |          |                                |                   |
| 3                            | 3               | 2.2           | 6.2             | 3.2     | 11.6 | 4.7  | 23.2 | 9.4 | 1.69             | 8113135  | NPQE-T-Q3-E-P10                | 10                |
| 4                            | 4               | 2.3           | 8.1             | 3.2     | 15.1 | 6    | 30.2 | 12  | 3.46             | 8113137  | NPQE-T-Q4-E-P10 <sup>2)</sup>  | 10                |
| 6                            | 6               | 4             | 10.7            | 3.2     | 16.8 | 7    | 33.6 | 14  | 6.76             | 8113140  | NPQE-T-Q6-E-P10 <sup>2)</sup>  | 10                |
| 8                            | 8               | 7.1           | 14              | 3.3     | 22.5 | 9    | 44.9 | 18  | 12               | 8113144  | NPQE-T-Q8-E-P10                | 10                |
| 10                           | 10              | 9.3           | 18              | 4.3     | 28   | 12   | 56   | 24  | 20.41            | 8113148  | NPQE-T-Q10-E-P10               | 10                |
| 12                           | 12              | 12.3          | 20.6            | 4.3     | 29.4 | 13.5 | 58.8 | 27  | 26.89            | 8113152  | NPQE-T-Q12-E-P10               | 10                |
| 16                           | 16              | 14.3          | 25              | 4.3     | 32.5 | 15.5 | 65   | 31  | 37.85            | 8113154  | NPQE-T-Q16-E-P5                | 5                 |
| <b>Increasing</b>            |                 |               |                 |         |      |      |      |     |                  |          |                                |                   |
| 3                            | 4               | 2.2           | 8.1             | 3.2     | 14.6 | 6    | 30.2 | 12  | 3.31             | 8113136  | NPQE-T-Q3-Q4-P10 <sup>2)</sup> | 10                |
| 4                            | 6               | 2.3           | 10.7            | 3.2     | 16.6 | 7    | 33.6 | 14  | 5.12             | 8113139  | NPQE-T-Q4-Q6-P10 <sup>2)</sup> | 10                |
|                              | 8               | 3.5           | 14              | 3.3     | 21   | 9    | 42.9 | 15  | 10.87            | 8113142  | NPQE-T-Q4-Q8-P10               | 10                |
| 6                            | 8               | 5.3           | 14              | 3.3     | 22   | 9    | 44.9 | 16  | 10.27            | 8113143  | NPQE-T-Q6-Q8-P10               | 10                |
|                              | 10              | 5.3           | 18              | 4.3     | 23.1 | 11   | 52   | 18  | 18.01            | 8113146  | NPQE-T-Q6-Q10-P10              | 10                |
| 8                            | 10              | 7.1           | 18              | 4.3     | 27.5 | 11   | 56   | 18  | 17.84            | 8113147  | NPQE-T-Q8-Q10-P10              | 10                |
|                              | 12              | 7.1           | 20.6            | 4.3     | 27   | 12.5 | 56.8 | 19  | 24.76            | 8113150  | NPQE-T-Q8-Q12-P10              | 10                |
| 10                           | 12              | 9.3           | 20.6            | 4.3     | 29   | 13.5 | 58.8 | 24  | 24.63            | 8113151  | NPQE-T-Q10-Q12-P10             | 10                |
| 12                           | 16              | 10            | 25              | 4.3     | 31.9 | 15.5 | 65   | 27  | 25.13            | 8113153  | NPQE-T-Q12-Q16-P5              | 5                 |
| <b>Reducing</b>              |                 |               |                 |         |      |      |      |     |                  |          |                                |                   |
| 6                            | 4               | 2.3           | 10.7            | 3.2     | 16.8 | 7    | 33.2 | 14  | 5.17             | 8113138  | NPQE-T-Q6-Q4-P10 <sup>2)</sup> | 10                |
| 8                            | 6               | 5.3           | 14              | 3.3     | 22.1 | 9    | 44.1 | 16  | 11.04            | 8113141  | NPQE-T-Q8-Q6-P10               | 10                |
| 10                           | 8               | 7.1           | 18              | 4.3     | 28   | 12   | 55   | 24  | 19.77            | 8113145  | NPQE-T-Q10-Q8-P10              | 10                |
| 12                           | 10              | 9.3           | 20.6            | 4.3     | 29.4 | 13.5 | 58   | 27  | 26.47            | 8113149  | NPQE-T-Q12-Q10-P10             | 10                |

1) Container size

2) Not suitable for safety clip NPAP-QE

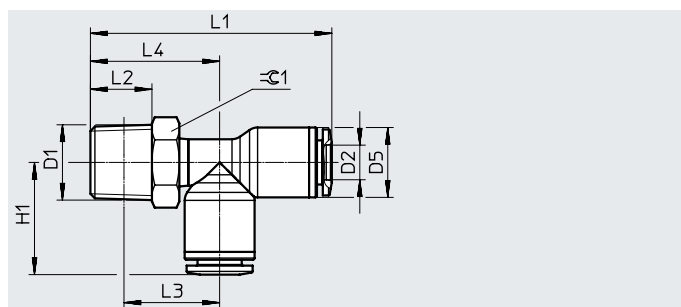
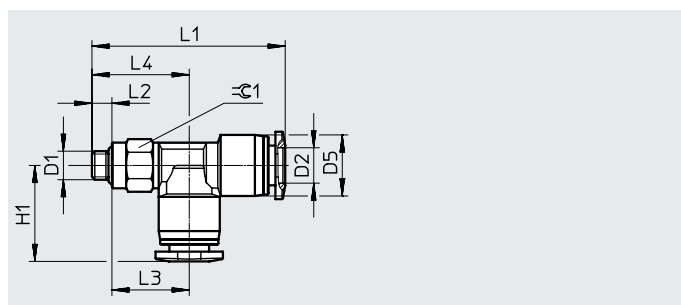


## Data sheet

**Push-in T-fitting NPQE-LQ**

Male thread with external hex, additional push-in connector, in-line

Can be aligned after mounting



| Pneumatic connection                   |                 | Nominal width | Dimensions [mm] |      |      |      |      |      |     | Weight/ piece | Part no. | Type                            | Pc. <sup>1)</sup> |
|----------------------------------------|-----------------|---------------|-----------------|------|------|------|------|------|-----|---------------|----------|---------------------------------|-------------------|
| Male thread                            | For tubing O.D. |               | D5<br>ø         | H1   | L1   | L2   | L3   | L4   | ≅ 1 |               |          |                                 |                   |
| D1                                     | D2              | [mm]          |                 |      |      |      |      |      |     | [g]           |          |                                 |                   |
| <b>Metric thread with sealing ring</b> |                 |               |                 |      |      |      |      |      |     |               |          |                                 |                   |
| M5                                     | 4               | 2.2           | 8.1             | 15.1 | 30.9 | 3.5  | 12.3 | 15.8 | 8   | 4.64          | 8113067  | NPQE-LQ-M5-Q4-P10 <sup>2)</sup> | 10                |
|                                        | 6               | 2.2           | 10.7            | 16.8 | 33.9 | 3.5  | 13.6 | 17.1 | 8   | 5.83          | 8113068  | NPQE-LQ-M5-Q6-P10 <sup>2)</sup> | 10                |
| <b>R thread</b>                        |                 |               |                 |      |      |      |      |      |     |               |          |                                 |                   |
| R1/8                                   | 4               | 3.4           | 10.5            | 18   | 37.6 | 8    | 15.6 | 19.6 | 10  | 8.97          | 8113069  | NPQE-LQ-R18-Q4-P10              | 10                |
|                                        | 6               | 4             | 12.5            | 20.1 | 40.7 | 8    | 16.6 | 20.6 | 10  | 10.68         | 8113070  | NPQE-LQ-R18-Q6-P10              | 10                |
|                                        | 8               | 6             | 14              | 22.7 | 46.6 | 8    | 19.9 | 23.9 | 10  | 12.27         | 8113071  | NPQE-LQ-R18-Q8-P10              | 10                |
|                                        | 10              | 6.5           | 18              | 27   | 53.3 | 8.5  | 22.3 | 26.3 | 17  | 26.44         | 8113072  | NPQE-LQ-R18-Q10-P10             | 10                |
|                                        | 12              | 6.5           | 20.6            | 29.4 | 56.9 | 8.5  | 23.5 | 27.5 | 17  | 32.26         | 8113073  | NPQE-LQ-R18-Q12-P10             | 10                |
| R1/4                                   | 4               | 3.4           | 10.5            | 18   | 40.1 | 11   | 16.1 | 22.1 | 14  | 16.36         | 8113074  | NPQE-LQ-R14-Q4-P10              | 10                |
|                                        | 6               | 4             | 12.5            | 20.1 | 43.2 | 11   | 17.1 | 23.1 | 14  | 18.18         | 8113075  | NPQE-LQ-R14-Q6-P10              | 10                |
|                                        | 8               | 6             | 14              | 22.7 | 46.2 | 11   | 17.5 | 23.5 | 14  | 17.8          | 8113076  | NPQE-LQ-R14-Q8-P10              | 10                |
|                                        | 10              | 8.5           | 18              | 27   | 56.4 | 11.5 | 23.4 | 29.4 | 17  | 30.14         | 8113077  | NPQE-LQ-R14-Q10-P10             | 10                |
|                                        | 12              | 8.5           | 20.6            | 29.4 | 60   | 11.5 | 24.6 | 30.6 | 17  | 35.96         | 8113078  | NPQE-LQ-R14-Q12-P10             | 10                |

1) Container size

2) Not suitable for safety clip NPAP-QE

## Data sheet

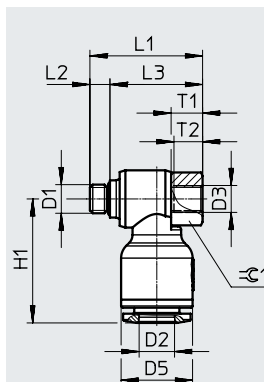
**Push-in T-fitting NPQE-LT**

Male thread with external hex, additional connector, female thread, in-line

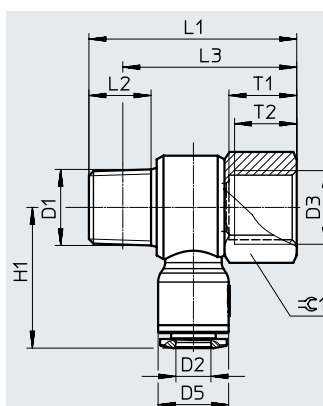
Can be aligned after mounting



M thread



R thread

**Dimensions and ordering data**

| Pneumatic connection                   |                 | Nominal width | Dimensions [mm] |         |      |      |     |      |     |    |     | Weight/<br>piece | Part no. | Type                | Pc. <sup>1)</sup> |
|----------------------------------------|-----------------|---------------|-----------------|---------|------|------|-----|------|-----|----|-----|------------------|----------|---------------------|-------------------|
| Male thread                            | For tubing O.D. |               | D3              | D5<br>ø | H1   | L1   | L2  | L3   | T1  | T2 | ≈ 1 |                  |          |                     |                   |
| D1                                     | D2              | [mm]          |                 |         |      |      |     |      |     |    |     | [g]              |          |                     |                   |
| <b>Metric thread with sealing ring</b> |                 |               |                 |         |      |      |     |      |     |    |     |                  |          |                     |                   |
| M5                                     | 4               | 1.8           | M5              | 10.5    | 20   | 19.7 | 3.5 | 16.2 | 5.5 | 5  | 8   | 7.13             | 8113090  | NPQE-LT-M5-Q4-P10   | 10                |
|                                        | 6               | 1.8           | M5              | 12.5    | 21.7 | 19.7 | 3.5 | 16.2 | 5.5 | 5  | 8   | 7.75             | 8113091  | NPQE-LT-M5-Q6-P10   | 10                |
| <b>R thread</b>                        |                 |               |                 |         |      |      |     |      |     |    |     |                  |          |                     |                   |
| R1/8                                   | 4               | 3             | G1/8            | 10.5    | 22.3 | 31   | 8   | 27   | 9   | 8  | 14  | 18.85            | 8113092  | NPQE-LT-R18-Q4-P10  | 10                |
|                                        | 6               | 4             | G1/8            | 12.5    | 22.9 | 31   | 8   | 27   | 9   | 8  | 14  | 19.39            | 8113093  | NPQE-LT-R18-Q6-P10  | 10                |
|                                        | 8               | 4             | G1/8            | 14      | 25.3 | 31   | 8   | 27   | 9   | 8  | 14  | 20.21            | 8113094  | NPQE-LT-R18-Q8-P10  | 10                |
|                                        | 10              | 4             | G1/8            | 18      | 30.2 | 31   | 8   | 27   | 9   | 8  | 14  | 23.37            | 8113095  | NPQE-LT-R18-Q10-P10 | 10                |
| R1/4                                   | 6               | 4             | G1/4            | 12.5    | 24.9 | 36.8 | 11  | 30.8 | 12  | 11 | 17  | 34.73            | 8113096  | NPQE-LT-R14-Q6-P10  | 10                |
|                                        | 8               | 5             | G1/4            | 14      | 28.4 | 36.8 | 11  | 30.8 | 12  | 11 | 17  | 35.53            | 8113097  | NPQE-LT-R14-Q8-P10  | 10                |
|                                        | 10              | 5             | G1/4            | 18      | 32   | 36.8 | 11  | 30.8 | 12  | 11 | 17  | 38.58            | 8113098  | NPQE-LT-R14-Q10-P10 | 10                |
|                                        | 12              | 5             | G1/4            | 20.6    | 33.2 | 36.8 | 11  | 30.8 | 12  | 11 | 17  | 40.63            | 8113099  | NPQE-LT-R14-Q12-P10 | 10                |
| R3/8                                   | 10              | 6.5           | G3/8            | 18      | 32.5 | 42.9 | 12  | 36.5 | 13  | 12 | 21  | 57.77            | 8113100  | NPQE-LT-R38-Q10-P5  | 5                 |
|                                        | 12              | 6.5           | G3/8            | 20.6    | 35.3 | 42.9 | 12  | 36.5 | 13  | 12 | 21  | 59.98            | 8113101  | NPQE-LT-R38-Q12-P5  | 5                 |
| R1/2                                   | 12              | 8             | G1/2            | 20.6    | 36.3 | 50   | 15  | 41.8 | 15  | 14 | 24  | 92.17            | 8113102  | NPQE-LT-R12-Q12-P5  | 5                 |

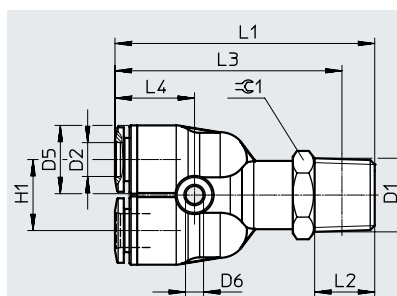
1) Container size

## Data sheet

## Push-in Y-fitting NPQE-Y

Male thread with external hex

Can be aligned after mounting



## Dimensions and ordering data

| Pneumatic connection |                 | Nominal width | Dimensions [mm] |         |    |      |      |      |      |      | Weight/<br>piece | Part no. | Type               | Pc. <sup>1)</sup> |
|----------------------|-----------------|---------------|-----------------|---------|----|------|------|------|------|------|------------------|----------|--------------------|-------------------|
| Male thread          | For tubing O.D. |               | D5<br>ø         | D6<br>ø | H1 | L1   | L2   | L3   | L4   | ±0.1 |                  |          |                    |                   |
| D1                   | D2              | [mm]          |                 |         |    |      |      |      |      |      | [g]              |          |                    |                   |
| <b>R thread</b>      |                 |               |                 |         |    |      |      |      |      |      |                  |          |                    |                   |
| R1/8                 | 4               | 2.6           | 10.5            | 3.3     | 11 | 42.5 | 8    | 38.5 | 14   | 10   | 12.24            | 8113079  | NPQE-Y-R18-Q4-P10  | 10                |
|                      | 6               | 4.6           | 12.5            | 3.3     | 13 | 44.4 | 8.5  | 40.4 | 14.6 | 12   | 14.75            | 8113080  | NPQE-Y-R18-Q6-P10  | 10                |
|                      | 8               | 6             | 14              | 3.3     | 15 | 47.6 | 8.5  | 43.6 | 17.9 | 14   | 21.1             | 8113081  | NPQE-Y-R18-Q8-P10  | 10                |
|                      | 10              | 5             | 18              | 4.3     | 18 | 56.8 | 8.5  | 52.8 | 20.4 | 17   | 35.84            | 8113082  | NPQE-Y-R18-Q10-P10 | 10                |
| R1/4                 | 4               | 2.6           | 10.5            | 3.3     | 11 | 46.5 | 11   | 40.5 | 14   | 14   | 16.24            | 8113083  | NPQE-Y-R14-Q4-P10  | 10                |
|                      | 6               | 4.6           | 12.5            | 3.3     | 13 | 47.6 | 11   | 41.6 | 14.6 | 14   | 19.84            | 8113084  | NPQE-Y-R14-Q6-P10  | 10                |
|                      | 8               | 6             | 14              | 3.3     | 15 | 50.3 | 11   | 44.3 | 17.9 | 14   | 22.9             | 8113085  | NPQE-Y-R14-Q8-P10  | 10                |
|                      | 10              | 8             | 18              | 4.3     | 18 | 59.8 | 11.5 | 53.8 | 20.4 | 17   | 39.14            | 8113086  | NPQE-Y-R14-Q10-P10 | 10                |
| R3/8                 | 10              | 8             | 18              | 4.3     | 18 | 60.5 | 12   | 54.1 | 20.4 | 17   | 40.82            | 8113087  | NPQE-Y-R38-Q10-P5  | 5                 |
|                      | 12              | 9             | 20.6            | 4.3     | 21 | 64.6 | 12.5 | 58.2 | 21.3 | 21   | 58.54            | 8113088  | NPQE-Y-R38-Q12-P5  | 5                 |
| R1/2                 | 12              | 9             | 20.6            | 4.3     | 21 | 67.3 | 15   | 59.1 | 21.3 | 21   | 64.21            | 8113089  | NPQE-Y-R12-Q12-P5  | 5                 |

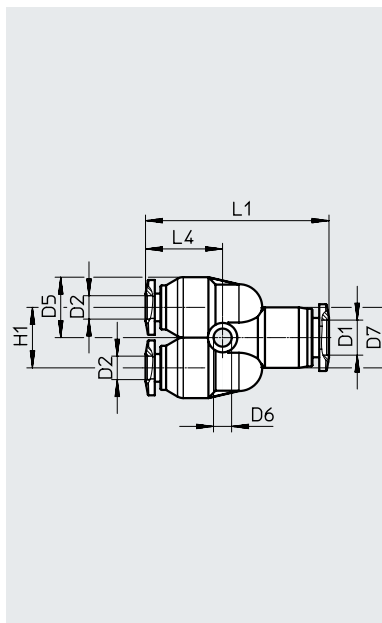
1) Container size

## Data sheet

## Push-in Y-connector NPQE-Y



Reducing



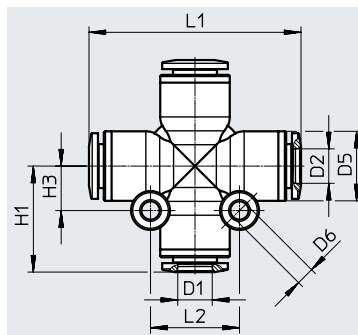
| Dimensions and ordering data |                 |               |                 |         |         |      |      |      |               |          |                                |                   |
|------------------------------|-----------------|---------------|-----------------|---------|---------|------|------|------|---------------|----------|--------------------------------|-------------------|
| Pneumatic connection         |                 | Nominal width | Dimensions [mm] |         |         |      |      |      | Weight/ piece | Part no. | Type                           | Pc. <sup>1)</sup> |
| For tubing O.D.              | For tubing O.D. |               | D5<br>ø         | D6<br>ø | D7<br>ø | H1   | L1   | L4   |               |          |                                |                   |
| D1                           | D2              | [mm]          |                 |         |         |      |      |      | [g]           |          |                                |                   |
| 3                            | 3               | 2.2           | 7.8             | 3.1     | 7.8     | 8.1  | 29.2 | 13.1 | 2.3           | 8113155  | NPQE-Y-Q3-E-P10                | 10                |
| 4                            | 4               | 2.3           | 7.8             | 3.1     | 7.8     | 8.1  | 30.2 | 13.6 | 3.44          | 8113157  | NPQE-Y-Q4-E-P10 <sup>2)</sup>  | 10                |
| 6                            | 6               | 4             | 10.7            | 3.2     | 10.7    | 10.7 | 32.6 | 13.8 | 4.46          | 8113159  | NPQE-Y-Q6-E-P10 <sup>2)</sup>  | 10                |
| 8                            | 8               | 8.2           | 14              | 3.3     | 14      | 15   | 39.8 | 17.9 | 11.1          | 8113162  | NPQE-Y-Q8-E-P10                | 10                |
| 10                           | 10              | 8.2           | 18              | 4.3     | 18      | 18   | 49.1 | 20.5 | 20.11         | 8113165  | NPQE-Y-Q10-E-P10               | 10                |
| 12                           | 12              | 12.3          | 20.6            | 4.3     | 20.6    | 21   | 52.8 | 21.4 | 26.79         | 8113168  | NPQE-Y-Q12-E-P10               | 10                |
| 16                           | 16              | 13            | 25              | 4.3     | 25      | 25   | 61   | 22.5 | 40.12         | 8113170  | NPQE-Y-Q16-E-P5                | 5                 |
| <b>Reducing</b>              |                 |               |                 |         |         |      |      |      |               |          |                                |                   |
| 4                            | 3               | 2.2           | 7.8             | 3.1     | 7.8     | 8.1  | 29.7 | 13.1 | 3.01          | 8113156  | NPQE-Y-Q4-Q3-P10 <sup>2)</sup> | 10                |
| 6                            | 4               | 2.3           | 10.7            | 3.2     | 10.7    | 10.7 | 32.4 | 13.6 | 5.31          | 8113158  | NPQE-Y-Q6-Q4-P10 <sup>2)</sup> | 10                |
| 8                            | 4               | 3             | 10.5            | 3.3     | 14      | 11   | 38.4 | 13.9 | 8.04          | 8113160  | NPQE-Y-Q8-Q4-P10               | 10                |
|                              | 6               | 6.2           | 12.5            | 3.3     | 14      | 13   | 39.9 | 14.6 | 9.24          | 8113161  | NPQE-Y-Q8-Q6-P10               | 10                |
| 10                           | 6               | 4.6           | 12.5            | 3.3     | 18      | 13   | 43   | 14.5 | 12.45         | 8113163  | NPQE-Y-Q10-Q6-P10              | 10                |
|                              | 8               | 8.2           | 14              | 3.3     | 18      | 15   | 48.5 | 17.9 | 19.37         | 8113164  | NPQE-Y-Q10-Q8-P10              | 10                |
| 12                           | 8               | 6             | 14              | 4.3     | 20.6    | 15   | 47.9 | 17.9 | 16.83         | 8113166  | NPQE-Y-Q12-Q8-P10              | 10                |
|                              | 10              | 10.3          | 18              | 4.3     | 20.6    | 18   | 51.6 | 20.5 | 22.27         | 8113167  | NPQE-Y-Q12-Q10-P10             | 10                |
| 16                           | 12              | 12.3          | 20.6            | 4.3     | 25      | 21   | 56.4 | 21.4 | 30.59         | 8113169  | NPQE-Y-Q16-Q12-P5              | 5                 |

1) Container size

2) Not suitable for safety clip NPAP-QE

## Data sheet

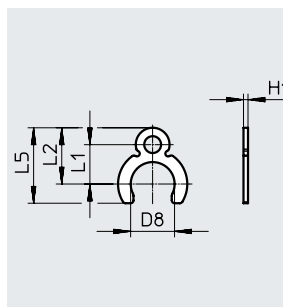
## Push-in X connector NPQE-X



| Dimensions and ordering data |                      | Nominal width | Dimensions [mm] |     |      |      |      |     | Weight/ piece | Part no. | Type             | Pc. <sup>1)</sup> |
|------------------------------|----------------------|---------------|-----------------|-----|------|------|------|-----|---------------|----------|------------------|-------------------|
| Pneumatic connection         | Pneumatic connection |               | D5              | D6  | H1   | H3   | L1   | L2  |               |          |                  |                   |
| For tubing O.D.              | For tubing O.D.      | [mm]          | Ø               | Ø   |      |      |      |     | [g]           |          |                  |                   |
| D1                           | D2                   |               |                 |     |      |      |      |     |               |          |                  |                   |
| 3                            | 3                    | 2.2           | 6.2             | 3.2 | 12.3 | 4.9  | 24.6 | 9.8 | 2.23          | 8113177  | NPQE-X-Q3-E-P10  | 10                |
| 4                            | 4                    | 3.5           | 10.5            | 3.3 | 17.5 | 7    | 35   | 14  | 7.77          | 8113178  | NPQE-X-Q4-E-P10  | 10                |
| 6                            | 6                    | 5             | 12.5            | 3.3 | 19.1 | 8    | 38.2 | 16  | 10.38         | 8113179  | NPQE-X-Q6-E-P10  | 10                |
| 8                            | 8                    | 7             | 14              | 3.3 | 22.5 | 9    | 44.9 | 18  | 13.7          | 8113180  | NPQE-X-Q8-E-P10  | 10                |
| 10                           | 10                   | 9.3           | 18              | 4.3 | 28.1 | 12   | 56   | 24  | 26.68         | 8113181  | NPQE-X-Q10-E-P10 | 10                |
| 12                           | 12                   | 10            | 20.6            | 4.3 | 29.4 | 13.5 | 58.8 | 27  | 34.62         | 8113182  | NPQE-X-Q12-E-P10 | 10                |

1) Container size

## Safety clip NPAP-QE



| Dimensions and ordering data |                      | Nominal width | Dimensions [mm] |     |      |      |      | Weight/ piece | Part no. | Type              | Pc. <sup>1)</sup> |
|------------------------------|----------------------|---------------|-----------------|-----|------|------|------|---------------|----------|-------------------|-------------------|
| Pneumatic connection         | Pneumatic connection |               | D8              | H1  | L1   | L2   | L5   |               |          |                   |                   |
| For tubing O.D.              | For tubing O.D.      |               | Ø               |     |      |      |      | [g]           |          |                   |                   |
| 4                            | 4                    | 2.2           | 5.5             | 0.8 | 6    | 9    | 12   | 0.06          | 8113228  | NPAP-QE-S-Q4-P10  | 10                |
| 6                            | 6                    | 3.5           | 7.8             | 0.8 | 7    | 10   | 13.5 | 0.07          | 8113229  | NPAP-QE-S-Q6-P10  | 10                |
| 8                            | 8                    | 5             | 9.7             | 1.2 | 8    | 11   | 15.3 | 0.11          | 8113230  | NPAP-QE-S-Q8-P10  | 10                |
| 10                           | 10                   | 7             | 11.9            | 1.4 | 10   | 13.5 | 18.8 | 0.23          | 8113231  | NPAP-QE-S-Q10-P10 | 10                |
| 12                           | 12                   | 9.3           | 14.8            | 1.6 | 11   | 14.5 | 20.5 | 0.28          | 8113232  | NPAP-QE-S-Q12-P10 | 10                |
| 16                           | 16                   | 10            | 18.2            | 1.9 | 13.5 | 17.5 | 24.5 | 0.39          | 8113233  | NPAP-QE-S-Q16-P10 | 10                |

1) Container size