

## Push-in fittings NPQP

**FESTO**



## Key features

### Application



Choosing the right fitting is effortless. Festo offers the right solution for every connection. With far more than 1000 types of standard and function fittings, Festo offers a secure solution for every connection.

### Overview of tubing/fitting combinations

| Applications                                     | Fitting | Tubing     | Description                                                                                                                                                                                                                  |
|--------------------------------------------------|---------|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standard                                         | QS(M)   | PUN-H      | Maximum flexibility in standard applications thanks to an extremely wide range of options for combining the different types.                                                                                                 |
|                                                  | QS(M)   | PEN        | Suitable for a wide range of tasks and attractively priced. Flexible with highly resistant materials, easy to install with optimised bending radii. High level of abrasion resistance in dynamic applications.               |
|                                                  | QS(M)   | PAN        | Meets all requirements, even for standard applications with increased pressure and temperature ranges.                                                                                                                       |
| 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      | High performance 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 made from 100% polymer. Very easy to install with 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 with the union nut's edge-free design. 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     | Antistatic tubing plus solid metal fitting: maximum protection for electric and electronic components.                                                                                                                       |
| Flame retardant                                  | NPQM    | PUN-V0     | Very safe in areas where there is a risk of fire with its 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 with tubing wall thickness of 2 mm for all diameters.                                                                                                             |
|                                                  | QS-V0   | PAN-V0     | Safe even in the close vicinity of welding spatter with the double-walled tubing with special fitting.                                                                                                                       |

## Key features

## Push-in fittings product range

QSM, mini

Datasheets → 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. 2, 3, 4 and 6 mm with connecting thread M3, M5, M6, M7, R1/8 and G1/8.

QS, standard

Datasheets → 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. 4, 6, 8, 10, 12, 16 and 22 mm with connecting thread R1/8 ... R1/2 and G1/8 ... G3/4.

CRQS, stainless steel

Datasheets → Internet: crqs



Stainless steel push-in fitting. Highest level of 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. 4, 6, 8, 10, 12 and 16 mm with connecting thread M5 and R1/8 ... R1/2.

QS-V0, resistant to welding spatter

Datasheets → 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. 4, 6, 8, 10 and 12 mm with connecting thread R1/8 ... R1/2 and G1/8 ... G1/2.

NPQH

Datasheets → Internet: npqh



All 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. 4, 6, 8, 10, 12 and 14 mm with connecting thread M5, M7 and G1/8 ... G1/2.

NPQM

Datasheets → 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. 3, 4, 6, 8, 10, 12 and 14 mm with connecting thread M5, M7 and G1/8 ... G1/2.

NPQP

Datasheets → Internet: npqp



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

NPQR, stainless steel

Datasheets → 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. 4, 6, 8, 10 and 12 mm with connecting thread M5, M7 and G1/8 ... G1/2.

## Key features

### Functional push-in fittings product range

QSK,  
push-in fitting, self-sealing

Datasheets → 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. 4, 6, 8, 10 and 12 mm with connecting thread M5, R1/8 ... R1/2 and G1/8 ... G1/2.

QSR,  
push-in fitting, rotatable

Datasheets → Internet: qsr



Push-in fitting with swivel joint, 360° rotating. 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. 4, 6, 8, 10 and 12 mm with connecting thread M5, R1/8 ... R1/2 and G1/8 ... G1/2.

### Quick connectors product range

NPCK

Datasheets → 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. 4, 6, 8 and 10 mm with connecting thread M5 and G1/8 ... G3/8.

### Click fittings product range

NPKA

Datasheets → Internet: npka



Plastic fitting for easy installation with one hand. 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. 6 mm with connecting thread G1/8.

## Technical data

|                                                |                                           |
|------------------------------------------------|-------------------------------------------|
| <b>General technical data</b>                  |                                           |
| Size                                           | Standard                                  |
| Version                                        | Push-pull principle                       |
| <b>Operating and environmental conditions</b>  |                                           |
| Temperature-dependent operating pressure [bar] | -0.95 ... +10                             |
| Operating medium                               | Compressed air to ISO 8573-1:2010 [7:-:-] |
| Note on the operating/pilot medium             | Lubricated operation possible             |
| Ambient temperature [°C]                       | -20 ... +60                               |
|                                                | Extended temperature range on request     |
| Corrosion resistance class CRC <sup>1)</sup>   | 4                                         |
| Food-safe <sup>2)</sup>                        | See supplementary material information    |

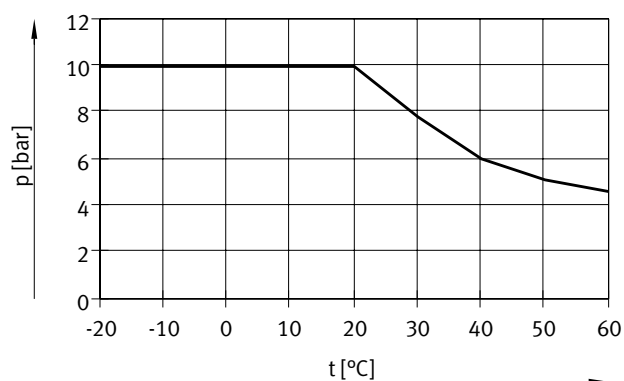
1) Corrosion resistance class CRC 4 to Festo standard FN 940070

Particularly high corrosion stress. Outdoor exposure under extreme corrosive conditions. Parts exposed to aggressive media, e.g. in the chemical or food industries. Such applications may need to be safeguarded by special testing (→ also FN 940082), using appropriate media.

2) Additional information: [www.festo.com/sp](http://www.festo.com/sp) → Certificates.

|                       |                                              |
|-----------------------|----------------------------------------------|
| <b>Materials</b>      |                                              |
| Type                  | NPQP   NPQP-H                                |
| Housing               | PP                                           |
| Tube clamping segment | High-alloy stainless steel                   |
| Nut                   | –   High-alloy stainless steel               |
| Note on materials     | RoHS-compliant                               |
|                       | Contains paint-wetting impairment substances |

### Operating pressure p as a function of temperature t

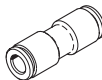
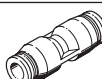
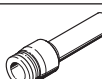
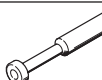
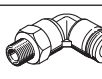
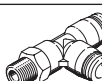
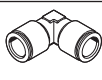


#### Note

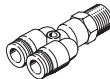
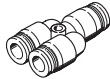
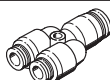
Leaks can occur with high temperature fluctuations due to the high expansion coefficient of polypropylene in combination with the R thread.

To avoid this, it is recommended to seal the thread with Loctite®55 thread sealing tape.

## Product range overview

| Design         | Version                                                                             | Type            | Connection D1 |             |                  | Connection D2 |                  |    | → Page |
|----------------|-------------------------------------------------------------------------------------|-----------------|---------------|-------------|------------------|---------------|------------------|----|--------|
|                |                                                                                     |                 | R thread      | Tubing O.D. | Push-in sleeve Ø | Tubing O.D.   | Push-in sleeve Ø |    |        |
| Straight shape | Push-in fitting – Male thread with external hex                                     |                 |               |             |                  |               |                  |    |        |
|                |    | NPQP-D          | R1/8          | –           | –                | 4, 6, 8       | –                | 8  |        |
|                |                                                                                     |                 | R1/4          |             |                  | 4, 6, 8, 10   |                  |    |        |
|                |                                                                                     |                 | R3/8          |             |                  | 10, 12        |                  |    |        |
|                |                                                                                     |                 | R1/2          |             |                  | 12            |                  |    |        |
|                | Push-in connector                                                                   |                 |               |             |                  |               |                  |    |        |
|                |    | NPQP-D          | –             | 4           | –                | 4             | –                | 9  |        |
|                |                                                                                     |                 | 6             | 6           |                  |               |                  |    |        |
|                |                                                                                     |                 | 8             | 8           |                  |               |                  |    |        |
|                |                                                                                     |                 | 10            | 10          |                  |               |                  |    |        |
|                |    | NPQP-D Reducing | –             | 12          | –                | 12            | –                | 9  |        |
|                |                                                                                     |                 | 6             | 4           |                  |               |                  |    |        |
|                |                                                                                     |                 | 8             | 6           |                  |               |                  |    |        |
|                |                                                                                     |                 | 10            | 8           |                  |               |                  |    |        |
|                |    | NPQP-H          | –             | 12          | –                | 12            | –                | 10 |        |
|                |                                                                                     |                 | 4             | 4           |                  |               |                  |    |        |
|                |                                                                                     |                 | 6             | 6           |                  |               |                  |    |        |
|                |                                                                                     |                 | 8             | 8           |                  |               |                  |    |        |
|                |   | NPQP-D-...-S    | –             | 10          | –                | –             | 6, 8             | 10 |        |
|                |                                                                                     |                 | 6             | 8, 10       |                  |               |                  |    |        |
|                |                                                                                     |                 | 8             | 10, 12      |                  |               |                  |    |        |
|                |                                                                                     |                 | 10            | 12          |                  |               |                  |    |        |
|                | Blanking plug                                                                       |                 |               |             |                  |               |                  |    |        |
|                |  | NPQP-P          | –             | –           | 4                | –             | –                | 11 |        |
|                |                                                                                     |                 | 6             |             |                  |               |                  |    |        |
| 8              |                                                                                     |                 |               |             |                  |               |                  |    |        |
| 10             |                                                                                     |                 |               |             |                  |               |                  |    |        |
| L-shape        | Push-in L-fitting – male thread with external hex                                   |                 |               |             |                  |               |                  |    |        |
|                |  | NPQP-L          | R1/8          | –           | –                | 4, 6, 8       | –                | 12 |        |
|                |                                                                                     |                 | R1/4          |             |                  | 4, 6, 8, 10   |                  |    |        |
|                |                                                                                     |                 | R3/8          |             |                  | 10, 12        |                  |    |        |
|                |                                                                                     |                 | R1/2          |             |                  | 12            |                  |    |        |
|                | Push-in L-fitting – male thread with external hex                                   |                 |               |             |                  |               |                  |    |        |
|                |  | NPQP-LQ         | R1/8          | –           | –                | 4, 6, 8       | –                | 12 |        |
|                |                                                                                     |                 | R1/4          |             |                  | 4, 6, 8, 10   |                  |    |        |
|                |                                                                                     |                 | R3/8          |             |                  | 10, 12        |                  |    |        |
|                |                                                                                     |                 | R1/2          |             |                  | 12            |                  |    |        |
|                | Push-in L-connector                                                                 |                 |               |             |                  |               |                  |    |        |
|                |  | NPQP-L          | –             | 4           | –                | 4             | –                | 13 |        |
|                |                                                                                     |                 | 6             | 6           |                  |               |                  |    |        |
|                |                                                                                     |                 | 8             | 8           |                  |               |                  |    |        |
|                |                                                                                     |                 | 10            | 10          |                  |               |                  |    |        |
|                |                                                                                     |                 |               | 12          |                  | 12            |                  |    |        |

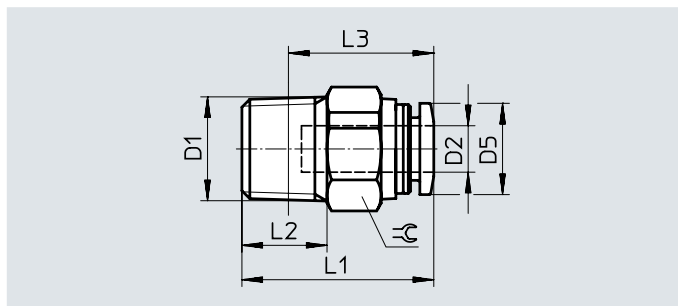
## Product range overview

| Design                                                                              | Version                                                                           | Type                                              | Connection D1 |             |                  | Connection D2 |                  | → Page |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------|---------------|-------------|------------------|---------------|------------------|--------|
|                                                                                     |                                                                                   |                                                   | R thread      | Tubing O.D. | Push-in sleeve Ø | Tubing O.D.   | Push-in sleeve Ø |        |
| T-shape                                                                             | Push-in T-fitting – male thread with external hex                                 |                                                   |               |             |                  |               |                  |        |
|                                                                                     |  | NPQP-T                                            | R1/8          | –           | –                | 4, 6, 8       | –                | 14     |
|                                                                                     |                                                                                   |                                                   | R1/4          |             |                  | 4, 6, 8, 10   |                  |        |
|                                                                                     |                                                                                   |                                                   | R3/8          |             |                  | 10, 12        |                  |        |
|                                                                                     |                                                                                   |                                                   | R1/2          |             |                  | 12            |                  |        |
|                                                                                     | Push-in T-connector                                                               |                                                   |               |             |                  |               |                  |        |
|                                                                                     |  | NPQP-T                                            | –             | 4           | –                | 4             | –                | 15     |
|                                                                                     |                                                                                   |                                                   | 6             | 6           |                  |               |                  |        |
|                                                                                     |                                                                                   |                                                   | 8             | 8           |                  |               |                  |        |
|                                                                                     |                                                                                   |                                                   | 10            | 10          |                  |               |                  |        |
|                                                                                     |  | NPQP-T Reducing                                   | –             | 6           | –                | 4             | –                | 15     |
|                                                                                     |                                                                                   |                                                   | 8             | 6           |                  |               |                  |        |
|                                                                                     |                                                                                   |                                                   | 10            | 8           |                  |               |                  |        |
|                                                                                     |                                                                                   |                                                   | 12            | 10          |                  |               |                  |        |
|                                                                                     | Y-shape                                                                           | Push-in Y-fitting – male thread with external hex |               |             |                  |               |                  |        |
|    |                                                                                   | NPQP-Y                                            | R1/8          | –           | –                | 4, 6, 8       | –                | 16     |
|                                                                                     |                                                                                   |                                                   | R1/4          |             |                  | 4, 6, 8, 10   |                  |        |
|                                                                                     |                                                                                   |                                                   | R3/8          |             |                  | 10, 12        |                  |        |
|                                                                                     |                                                                                   |                                                   | R1/2          |             |                  | 12            |                  |        |
| Push-in Y-connector                                                                 |                                                                                   |                                                   |               |             |                  |               |                  |        |
|   |                                                                                   | NPQP-Y                                            | –             | 4           | –                | 4             | –                | 17     |
|                                                                                     |                                                                                   |                                                   | 6             | 6           |                  |               |                  |        |
|                                                                                     |                                                                                   |                                                   | 8             | 8           |                  |               |                  |        |
|                                                                                     |                                                                                   |                                                   | 10            | 10          |                  |               |                  |        |
|  |                                                                                   | NPQP-Y Reducing                                   | –             | 6           | –                | 4             | –                | 17     |
|                                                                                     |                                                                                   |                                                   | 8             | 6           |                  |               |                  |        |
|                                                                                     |                                                                                   |                                                   | 10            | 8           |                  |               |                  |        |
|                                                                                     |                                                                                   |                                                   | 12            | 10          |                  |               |                  |        |

## Datasheet

### Push-in fitting NPQP-D

Male thread  
with external hex



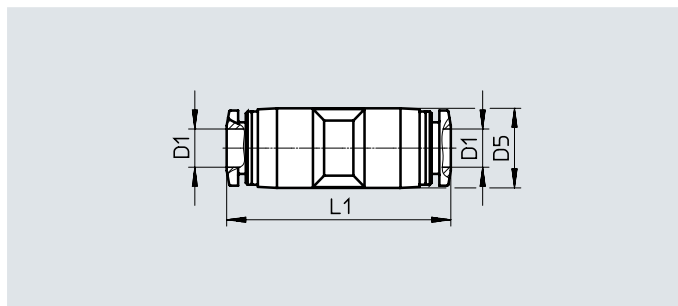
#### Dimensions and ordering data

| Connection | Nominal width<br>[mm] | Tubing O.D. | D5   | L1   | L2 | L3   | ≡  | Weight/piece<br>[g] | Part no. | Type                  | PU <sup>1)</sup> |
|------------|-----------------------|-------------|------|------|----|------|----|---------------------|----------|-----------------------|------------------|
| D1         | D2                    |             |      |      |    |      |    |                     |          |                       |                  |
| R1/8       | 2.1                   | 4           | 9.9  | 21.1 | 8  | 17.1 | 12 | 2.5                 | 133041   | NPQP-D-R18-Q4-FD-P10  | 10               |
|            | 3.4                   | 6           | 11.8 | 22.8 | 8  | 18.8 | 14 | 3.0                 | 133043   | NPQP-D-R18-Q6-FD-P10  | 10               |
|            | 5.3                   | 8           | 13.8 | 27.9 | 8  | 23.9 | 17 | 4.5                 | 133045   | NPQP-D-R18-Q8-FD-P10  | 10               |
| R1/4       | 2.1                   | 4           | 9.9  | 22.3 | 11 | 16.3 | 14 | 3.5                 | 133042   | NPQP-D-R14-Q4-FD-P10  | 10               |
|            | 3.4                   | 6           | 11.8 | 24.8 | 11 | 18.8 | 14 | 3.5                 | 133044   | NPQP-D-R14-Q6-FD-P10  | 10               |
|            | 5.3                   | 8           | 13.8 | 26.6 | 11 | 20.6 | 17 | 4.5                 | 133046   | NPQP-D-R14-Q8-FD-P10  | 10               |
|            | 6.2                   | 10          | 16.8 | 32.6 | 11 | 26.6 | 19 | 7.0                 | 133047   | NPQP-D-R14-Q10-FD-P10 | 10               |
| R3/8       | 6.2                   | 10          | 16.8 | 33.6 | 12 | 27.3 | 19 | 8.0                 | 133048   | NPQP-D-R38-Q10-FD-P10 | 10               |
|            | 7.2                   | 12          | 19.8 | 37.6 | 12 | 31.3 | 22 | 12.0                | 133049   | NPQP-D-R38-Q12-FD-P10 | 10               |
| R1/2       | 7.2                   | 12          | 19.8 | 34.1 | 15 | 25.9 | 22 | 12.0                | 133050   | NPQP-D-R12-Q12-FD     | 1                |

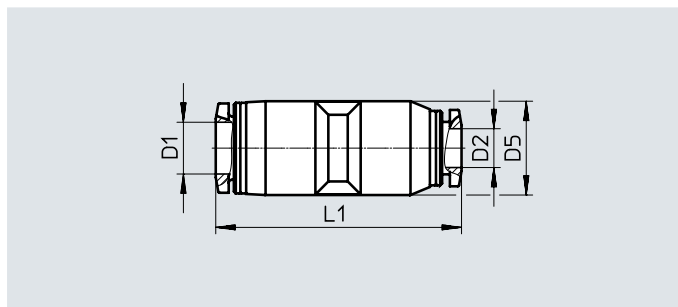
1) Packaging unit

## Datasheet

## Push-in connector NPQD-D



Reducing



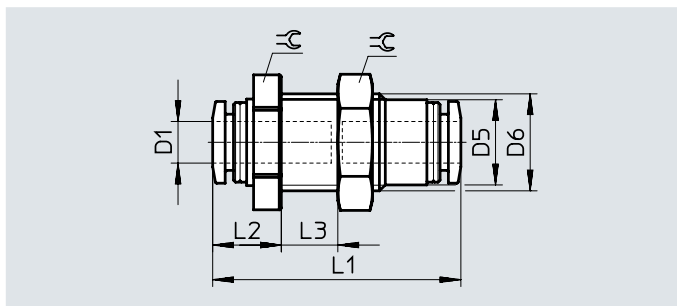
## Dimensions and ordering data

| Tubing O.D.<br>D1 | Nominal<br>width<br>[mm] | Tubing<br>O.D.<br>D2 | D5<br>ø | L1   | Weight/piece<br>[g] | Part no. | Type                  | PU <sup>1)</sup> |
|-------------------|--------------------------|----------------------|---------|------|---------------------|----------|-----------------------|------------------|
| 4                 | 2.6                      | –                    | 10.0    | 31.0 | 4.0                 | 133091   | NPQP-D-Q4-E-FD-P10    | 10               |
| 6                 | 4.0                      | –                    | 12.5    | 35.2 | 5.5                 | 133092   | NPQP-D-Q6-E-FD-P10    | 10               |
| 8                 | 5.0                      | –                    | 14.5    | 37.8 | 8.0                 | 133093   | NPQP-D-Q8-E-FD-P10    | 10               |
| 10                | 6.7                      | –                    | 17.5    | 41.8 | 13.0                | 133094   | NPQP-D-Q10-E-FD-P10   | 10               |
| 12                | 8.7                      | –                    | 21.0    | 48.2 | 19.0                | 133095   | NPQP-D-Q12-E-FD-P10   | 10               |
| <b>Reducing</b>   |                          |                      |         |      |                     |          |                       |                  |
| 6                 | 2.6                      | 4                    | 12.5    | 34.6 | 5.5                 | 133096   | NPQP-D-Q6-Q4-FD-P10   | 10               |
| 8                 | 4.0                      | 6                    | 14.5    | 38.0 | 7.0                 | 133097   | NPQP-D-Q8-Q6-FD-P10   | 10               |
| 10                | 5.0                      | 8                    | 17.5    | 41.3 | 12.0                | 133098   | NPQP-D-Q10-Q8-FD-P10  | 10               |
| 12                | 6.7                      | 10                   | 21.0    | 48.0 | 18.0                | 133099   | NPQP-D-Q12-Q10-FD-P10 | 10               |

1) Packaging unit

## Datasheet

### Push-in bulkhead connector NPQP-H



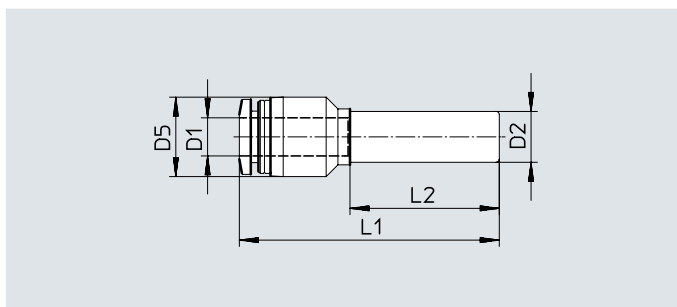
#### Dimensions and ordering data

| Tubing O.D. | Nominal width [mm] | D5 Ø | D6      | L1   | L2   | L3 max. | ≡  | Weight/piece [g] | Part no. | Type            | PU <sup>1)</sup> |
|-------------|--------------------|------|---------|------|------|---------|----|------------------|----------|-----------------|------------------|
| D1          |                    |      |         |      |      |         |    |                  |          |                 |                  |
| 4           | 2.3                | 10   | M12x1.5 | 31.6 | 9.3  | 6.5     | 14 | 7.2              | 133100   | NPQP-H-Q4-E-FD  | 1                |
| 6           | 3.7                | 12.3 | M14x1.5 | 35.8 | 9.9  | 9.5     | 17 | 10.2             | 133101   | NPQP-H-Q6-E-FD  | 1                |
| 8           | 4.9                | 14.2 | M16x1.5 | 38.4 | 10.7 | 9       | 19 | 14.3             | 133102   | NPQP-H-Q8-E-FD  | 1                |
| 10          | 7.1                | 17.5 | M20x2   | 43.4 | 13.2 | 12      | 24 | 24.4             | 133103   | NPQP-H-Q10-E-FD | 1                |
| 12          | 7.8                | 21   | M24x2   | 48.8 | 13.4 | 14      | 27 | 30.4             | 133104   | NPQP-H-Q12-E-FD | 1                |

1) Packaging unit

### Push-in connector NPQP-D

with push-in sleeve



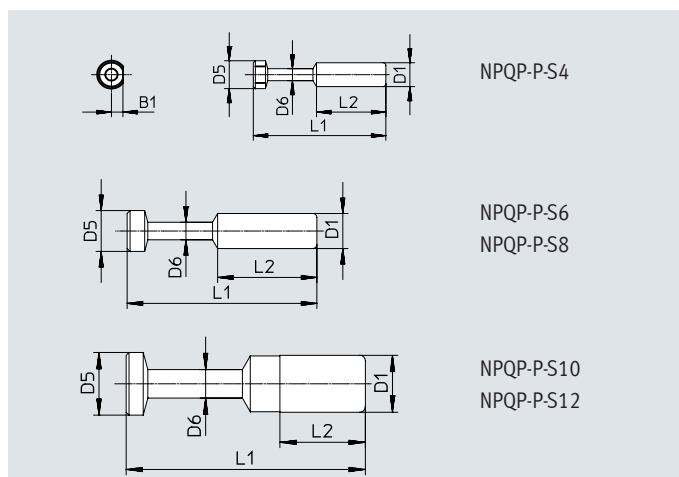
#### Dimensions and ordering data

| Tubing O.D. | Nominal width [mm] | Push-in sleeve Ø D2 | D5 Ø | L1   | L2   | Weight/piece [g] | Part no. | Type                  | PU <sup>1)</sup> |
|-------------|--------------------|---------------------|------|------|------|------------------|----------|-----------------------|------------------|
| D1          |                    |                     |      |      |      |                  |          |                       |                  |
| 4           | 2.5                | 6                   | 10.0 | 37.8 | 22.3 | 2.4              | 133133   | NPQP-D-Q4-S6-FD-P10   | 10               |
|             | 2.4                | 8                   | 12.5 | 40.3 | 23.3 | 3.0              | 133134   | NPQP-D-Q4-S8-FD-P10   | 10               |
| 6           | 3.8                | 8                   | 12.5 | 40.9 | 23.3 | 3.2              | 133135   | NPQP-D-Q6-S8-FD-P10   | 10               |
|             | 3.8                | 10                  | 12.5 | 43.9 | 28.3 | 3.6              | 133136   | NPQP-D-Q6-S10-FD-P10  | 10               |
| 8           | 5.4                | 10                  | 14.5 | 43.7 | 24.8 | 4.7              | 133137   | NPQP-D-Q8-S10-FD-P10  | 10               |
|             | 5.4                | 12                  | 14.5 | 49.7 | 33.5 | 5.4              | 133138   | NPQP-D-Q8-S12-FD-P10  | 10               |
| 10          | 6.3                | 12                  | 17.5 | 50.2 | 28.8 | 7.9              | 133139   | NPQP-D-Q10-S12-FD-P10 | 10               |

1) Packaging unit

## Datasheet

## Blanking plug NPQP-P



## Dimensions and ordering data

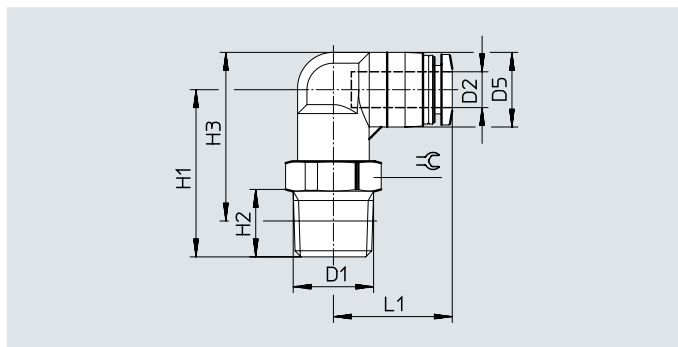
| Push-in sleeve Ø | B1  | D5<br>Ø | D6<br>Ø | L1   | L2   | Weight/piece<br>[g] | Part no. | Type              | PU <sup>1)</sup> |
|------------------|-----|---------|---------|------|------|---------------------|----------|-------------------|------------------|
| D1               |     |         |         |      |      |                     |          |                   |                  |
| 4                | 2.1 | 5       | 3       | 27.5 | 15.0 | 0.5                 | 133128   | NPQP-P-S4-FD-P10  | 10               |
| 6                | –   | 7       | 3       | 32.5 | 17.0 | 0.5                 | 133129   | NPQP-P-S6-FD-P10  | 10               |
| 8                | –   | 9       | 4       | 36.5 | 18.1 | 1.0                 | 133130   | NPQP-P-S8-FD-P10  | 10               |
| 10               | –   | 11      | 5       | 42.0 | 20.2 | 2.0                 | 133131   | NPQP-P-S10-FD-P10 | 10               |
| 12               | –   | 13      | 6       | 44.0 | 23.4 | 2.5                 | 133132   | NPQP-P-S12-FD-P10 | 10               |

1) Packaging unit

## Datasheet

### Push-in L-fitting NPQP-L

Male thread  
with external hex



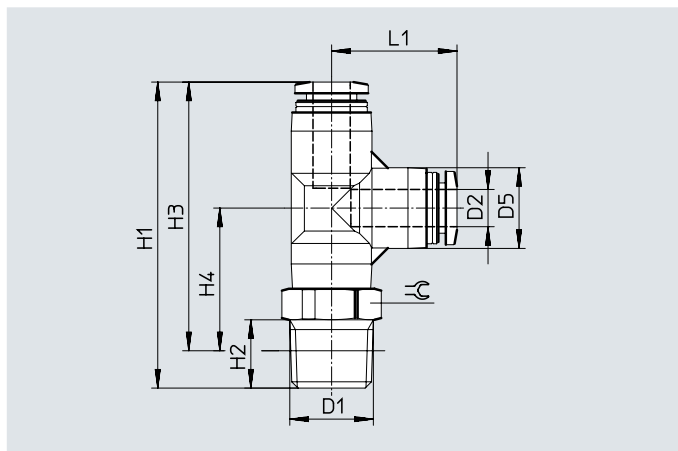
#### Dimensions and ordering data

| Connection | Nominal width [mm] | Tubing O.D. | D5   | H1   | H2 | H3   | L1   | ≡  | Weight/piece [g] | Part no. | Type                  | PU <sup>1)</sup> |
|------------|--------------------|-------------|------|------|----|------|------|----|------------------|----------|-----------------------|------------------|
| D1         | D2                 |             |      |      |    |      |      |    |                  |          |                       |                  |
| R1/8       | 2.1                | 4           | 10.0 | 23.3 | 8  | 24.3 | 18.1 | 10 | 4.0              | 133051   | NPQP-L-R18-Q4-FD-P10  | 10               |
|            | 3.3                | 6           | 12.5 | 25.0 | 8  | 27.3 | 19.9 | 12 | 5.0              | 133053   | NPQP-L-R18-Q6-FD-P10  | 10               |
|            | 4.7                | 8           | 14.5 | 28.0 | 8  | 31.3 | 22.7 | 14 | 7.0              | 133055   | NPQP-L-R18-Q8-FD-P10  | 10               |
| R1/4       | 2.1                | 4           | 10.0 | 26.3 | 11 | 25.3 | 18.1 | 14 | 4.5              | 133052   | NPQP-L-R14-Q4-FD-P10  | 10               |
|            | 3.3                | 6           | 12.5 | 28.0 | 11 | 28.2 | 19.9 | 14 | 5.5              | 133054   | NPQP-L-R14-Q6-FD-P10  | 10               |
|            | 4.7                | 8           | 14.5 | 31.0 | 11 | 32.2 | 22.7 | 14 | 7.5              | 133056   | NPQP-L-R14-Q8-FD-P10  | 10               |
|            | 5.7                | 10          | 17.5 | 36.0 | 11 | 38.7 | 26.4 | 17 | 12.0             | 133057   | NPQP-L-R14-Q10-FD-P10 | 10               |
| R3/8       | 5.7                | 10          | 17.5 | 37.0 | 12 | 39.4 | 26.4 | 17 | 13.0             | 133058   | NPQP-L-R38-Q10-FD-P10 | 10               |
|            | 6.9                | 12          | 21.0 | 39.0 | 12 | 43.2 | 29.6 | 22 | 18.0             | 133059   | NPQP-L-R38-Q12-FD-P10 | 10               |
| R1/2       | 6.9                | 12          | 21.0 | 42.0 | 15 | 44.3 | 29.6 | 22 | 19.0             | 133060   | NPQP-L-R12-Q12-FD     | 1                |

1) Packaging unit

### Push-in L-fitting NPQP-LQ

Male thread  
with external hex



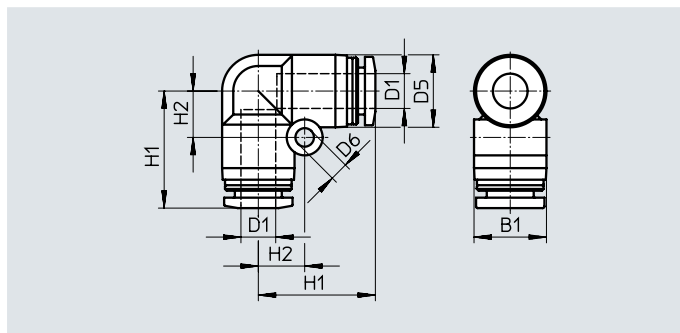
#### Dimensions and ordering data

| Connection | Nominal width [mm] | Tubing O.D. | D5   | H1   | H2 | H3   | H4   | L1   | ≡  | Weight/piece [g] | Part no. | Type                   | PU <sup>1)</sup> |
|------------|--------------------|-------------|------|------|----|------|------|------|----|------------------|----------|------------------------|------------------|
| D1         | D2                 |             |      |      |    |      |      |      |    |                  |          |                        |                  |
| R1/8       | 2.0                | 4           | 10.0 | 40.2 | 8  | 36.2 | 19.2 | 17.0 | 10 | 6.0              | 133061   | NPQP-LQ-R18-Q4-FD-P10  | 10               |
|            | 3.3                | 6           | 13.0 | 46.3 | 8  | 42.3 | 22.0 | 20.2 | 12 | 8.0              | 133063   | NPQP-LQ-R18-Q6-FD-P10  | 10               |
|            | 4.8                | 8           | 15.0 | 50.4 | 8  | 46.4 | 24.2 | 22.2 | 14 | 11.0             | 133065   | NPQP-LQ-R18-Q8-FD-P10  | 10               |
| R1/4       | 2.0                | 4           | 10.0 | 43.2 | 11 | 37.2 | 20.2 | 17.0 | 14 | 6.5              | 133062   | NPQP-LQ-R14-Q4-FD-P10  | 10               |
|            | 3.3                | 6           | 13.0 | 49.3 | 11 | 43.3 | 23.0 | 20.2 | 14 | 8.5              | 133064   | NPQP-LQ-R14-Q6-FD-P10  | 10               |
|            | 4.8                | 8           | 15.0 | 53.4 | 11 | 47.4 | 25.2 | 22.2 | 14 | 12.0             | 133066   | NPQP-LQ-R14-Q8-FD-P10  | 10               |
|            | 5.8                | 10          | 17.5 | 61.4 | 11 | 55.4 | 30.0 | 25.4 | 17 | 18.0             | 133067   | NPQP-LQ-R14-Q10-FD-P10 | 10               |
| R3/8       | 5.8                | 10          | 17.5 | 62.4 | 12 | 56.1 | 30.7 | 25.4 | 17 | 19.0             | 133068   | NPQP-LQ-R38-Q10-FD-P10 | 10               |
|            | 6.9                | 12          | 21.0 | 67.8 | 12 | 61.5 | 32.9 | 28.4 | 22 | 26.0             | 133069   | NPQP-LQ-R38-Q12-FD-P10 | 10               |
| R1/2       | 6.9                | 12          | 21.0 | 70.8 | 15 | 62.6 | 34.0 | 28.4 | 22 | 28.0             | 133070   | NPQP-LQ-R12-Q12-FD     | 1                |

1) Packaging unit

# Datasheet

## Push-in L-connector NPQP-L

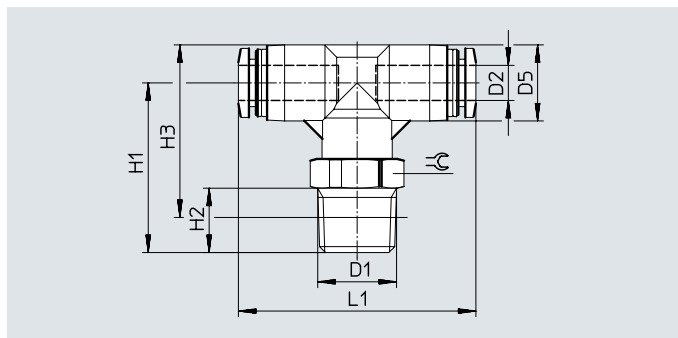


| Dimensions and ordering data |                          |                   |         |     |      |      |      |                     |          |                     |                  |
|------------------------------|--------------------------|-------------------|---------|-----|------|------|------|---------------------|----------|---------------------|------------------|
| Tubing O.D.<br>D1            | Nominal<br>width<br>[mm] | Tubing O.D.<br>D1 | D5<br>Ø | D6  | B1   | H1   | H2   | Weight/piece<br>[g] | Part no. | Type                | PU <sup>1)</sup> |
| 4                            | 2.3                      | 4                 | 10.0    | 3.2 | 10.0 | 17.0 | 6.5  | 4.5                 | 133105   | NPQP-L-Q4-E-FD-P10  | 10               |
| 6                            | 3.6                      | 6                 | 12.5    | 3.2 | 12.5 | 20.2 | 8.0  | 6.0                 | 133106   | NPQP-L-Q6-E-FD-P10  | 10               |
| 8                            | 4.6                      | 8                 | 15.0    | 4.2 | 15.6 | 22.4 | 10.0 | 9.0                 | 133107   | NPQP-L-Q8-E-FD-P10  | 10               |
| 10                           | 6.2                      | 10                | 17.5    | 4.2 | 18.2 | 26.4 | 12.0 | 14.0                | 133108   | NPQP-L-Q10-E-FD-P10 | 10               |
| 12                           | 7.7                      | 12                | 21.0    | 4.2 | 21.7 | 29.6 | 14.0 | 20.0                | 133109   | NPQP-L-Q12-E-FD-P10 | 10               |

1) Packaging unit

## Datasheet

## Push-in T-fitting NPQP-T



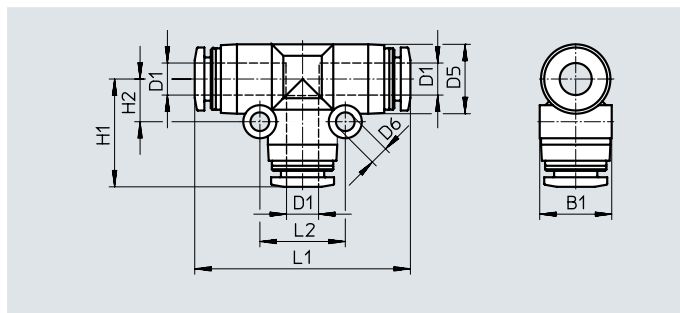
## Dimensions and ordering data

| Connection | Nominal width<br>[mm] | Tubing O.D. | D5   | H1   | H2 | H3   | L1   |    | Weight/piece<br>[g] | Part no. | Type                  | PU <sup>1)</sup> |
|------------|-----------------------|-------------|------|------|----|------|------|----|---------------------|----------|-----------------------|------------------|
| D1         | D2                    |             |      |      |    |      |      |    |                     |          |                       |                  |
| R1/8       | 2.0                   | 4           | 10.0 | 23.2 | 8  | 24.2 | 34.0 | 10 | 6.0                 | 133071   | NPQP-T-R18-Q4-FD-P10  | 10               |
|            | 3.2                   | 6           | 13.0 | 26.0 | 8  | 28.5 | 40.6 | 12 | 8.0                 | 133073   | NPQP-T-R18-Q6-FD-P10  | 10               |
|            | 4.7                   | 8           | 15.0 | 26.3 | 8  | 29.8 | 44.8 | 14 | 11.0                | 133075   | NPQP-T-R18-Q8-FD-P10  | 10               |
| R1/4       | 2.0                   | 4           | 10.0 | 26.2 | 11 | 25.2 | 34.0 | 14 | 6.5                 | 133072   | NPQP-T-R14-Q4-FD-P10  | 10               |
|            | 3.2                   | 6           | 13.0 | 29.0 | 11 | 29.5 | 40.6 | 14 | 8.5                 | 133074   | NPQP-T-R14-Q6-FD-P10  | 10               |
|            | 4.7                   | 8           | 15.0 | 29.3 | 11 | 30.8 | 44.8 | 14 | 12.0                | 133076   | NPQP-T-R14-Q8-FD-P10  | 10               |
|            | 5.8                   | 10          | 17.5 | 36.0 | 11 | 38.7 | 50.8 | 17 | 18.0                | 133077   | NPQP-T-R14-Q10-FD-P10 | 10               |
| R3/8       | 5.8                   | 10          | 17.5 | 37.0 | 12 | 39.4 | 50.8 | 17 | 19.0                | 133078   | NPQP-T-R38-Q10-FD-P10 | 10               |
|            | 6.9                   | 12          | 21.0 | 39.0 | 12 | 43.2 | 57.2 | 22 | 26.0                | 133079   | NPQP-T-R38-Q12-FD-P10 | 10               |
| R1/2       | 6.9                   | 12          | 21.0 | 42.0 | 15 | 44.3 | 57.2 | 22 | 28.0                | 133080   | NPQP-T-R12-Q12-FD     | 1                |

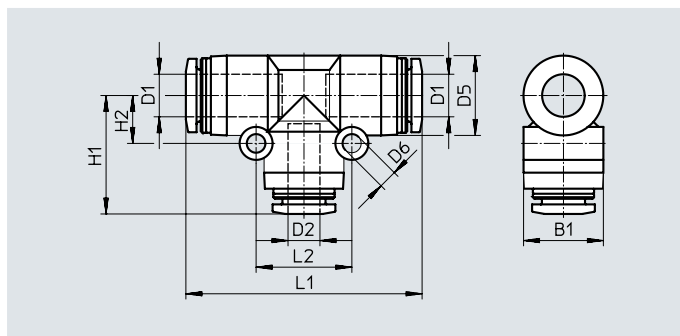
1) Packaging unit

## Datasheet

## Push-in T-connector NPQP-T



Reducing



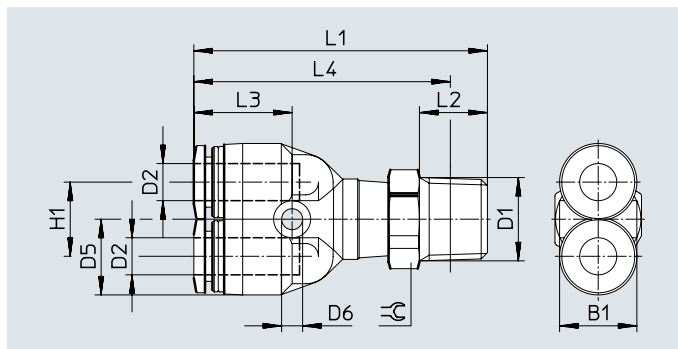
## Dimensions and ordering data

| Tubing O.D.<br>D1 | Nominal<br>width<br>[mm] | Tubing O.D.<br>D2 | D5<br>ø | D6  | B1   | H1   | H2   | L1   | L2   | Weight/piece<br>[g] | Part no. | Type                  | PU <sup>1)</sup> |
|-------------------|--------------------------|-------------------|---------|-----|------|------|------|------|------|---------------------|----------|-----------------------|------------------|
| 4                 | 2.6                      | –                 | 10.0    | 3.2 | 10.4 | 17.3 | 6.5  | 34.6 | 13.0 | 6.5                 | 133110   | NPQP-T-Q4-E-FD-P10    | 10               |
| 6                 | 4.0                      | –                 | 13.0    | 3.2 | 13.5 | 20.2 | 8.0  | 40.4 | 16.0 | 9.0                 | 133111   | NPQP-T-Q6-E-FD-P10    | 10               |
| 8                 | 5.0                      | –                 | 15.0    | 3.2 | 15.6 | 22.2 | 9.0  | 44.4 | 18.0 | 13.0                | 133112   | NPQP-T-Q8-E-FD-P10    | 10               |
| 10                | 6.7                      | –                 | 17.5    | 4.2 | 18.2 | 25.4 | 12.0 | 50.8 | 24.0 | 21.0                | 133113   | NPQP-T-Q10-E-FD-P10   | 10               |
| 12                | 8.7                      | –                 | 21.0    | 4.2 | 21.7 | 28.4 | 14.0 | 57.2 | 28.0 | 30.0                | 133114   | NPQP-T-Q12-E-FD-P10   | 10               |
| <b>Reducing</b>   |                          |                   |         |     |      |      |      |      |      |                     |          |                       |                  |
| 6                 | 2.3                      | 4                 | 13.0    | 3.2 | 13.5 | 19.6 | 8.0  | 40.4 | 16.0 | 9.0                 | 133115   | NPQP-T-Q6-Q4-FD-P10   | 10               |
| 8                 | 3.6                      | 6                 | 15.0    | 3.2 | 15.6 | 22.4 | 9.0  | 44.4 | 18.0 | 12.0                | 133116   | NPQP-T-Q8-Q6-FD-P10   | 10               |
| 10                | 5.0                      | 8                 | 17.5    | 4.2 | 18.2 | 24.9 | 12.0 | 50.8 | 24.0 | 19.5                | 133117   | NPQP-T-Q10-Q8-FD-P10  | 10               |
| 12                | 6.4                      | 10                | 21.0    | 4.2 | 21.7 | 28.2 | 14.0 | 57.2 | 28.0 | 28.0                | 133118   | NPQP-T-Q12-Q10-FD-P10 | 10               |

1) Packaging unit

# Datasheet

## Push-in Y-fitting NPQP-Y



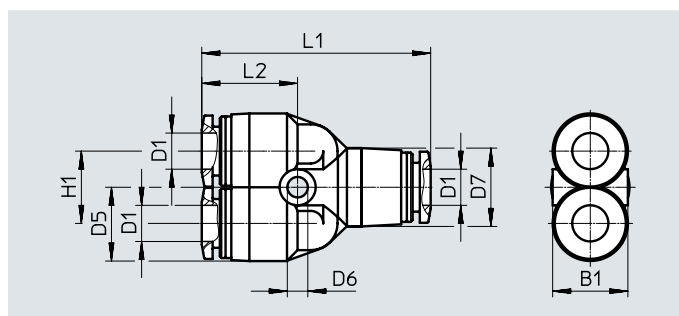
### Dimensions and ordering data

| Connection | Nominal width [mm] | Tubing O.D. D2 | D5   | D6  | B1   | H1 | L1   | L2 | L3   | L4   | ⌀  | Weight/ piece [g] | Part no. | Type                  | PU <sup>1)</sup> |
|------------|--------------------|----------------|------|-----|------|----|------|----|------|------|----|-------------------|----------|-----------------------|------------------|
| R1/8       | 2.0                | 4              | 10.0 | 3.2 | 10.4 | 11 | 40.7 | 8  | 14.2 | 36.7 | 10 | 6.5               | 133081   | NPQP-Y-R18-Q4-FD-P10  | 10               |
|            | 2.8                | 6              | 12.5 | 3.4 | 13.5 | 12 | 44.5 | 8  | 15.9 | 40.5 | 12 | 8.0               | 133083   | NPQP-Y-R18-Q6-FD-P10  | 10               |
|            | 4.5                | 8              | 14.5 | 3.4 | 14.5 | 14 | 48.7 | 8  | 17.2 | 44.7 | 14 | 12.0              | 133085   | NPQP-Y-R18-Q8-FD-P10  | 10               |
| R1/4       | 2.0                | 4              | 10.0 | 3.2 | 10.4 | 11 | 43.7 | 11 | 14.2 | 37.7 | 14 | 7.0               | 133082   | NPQP-Y-R14-Q4-FD-P10  | 10               |
|            | 2.8                | 6              | 12.5 | 3.4 | 13.5 | 12 | 47.5 | 11 | 15.9 | 41.5 | 14 | 8.5               | 133084   | NPQP-Y-R14-Q6-FD-P10  | 10               |
|            | 4.5                | 8              | 14.5 | 3.4 | 14.5 | 14 | 51.7 | 11 | 17.2 | 45.7 | 14 | 12.0              | 133086   | NPQP-Y-R14-Q8-FD-P10  | 10               |
|            | 5.3                | 10             | 18.0 | 4.5 | 18.0 | 18 | 58.5 | 11 | 19.7 | 52.5 | 17 | 20.0              | 133087   | NPQP-Y-R14-Q10-FD-P10 | 10               |
| R3/8       | 5.3                | 10             | 18.0 | 4.5 | 18.0 | 18 | 59.5 | 12 | 19.7 | 53.2 | 17 | 21.0              | 133088   | NPQP-Y-R38-Q10-FD-P10 | 10               |
|            | 6.2                | 12             | 21.0 | 4.2 | 21.0 | 20 | 64.7 | 12 | 22.4 | 58.4 | 22 | 28.0              | 133089   | NPQP-Y-R38-Q12-FD-P10 | 10               |
| R1/2       | 6.2                | 12             | 21.0 | 4.2 | 21.0 | 20 | 67.7 | 15 | 22.4 | 59.5 | 22 | 30.0              | 133090   | NPQP-Y-R12-Q12-FD     | 1                |

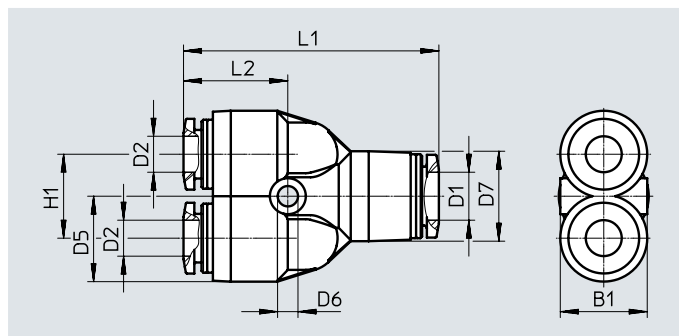
1) Packaging unit

## Datasheet

## Push-in Y-connector NPQP-Y



Reducing



## Dimensions and ordering data

| Tubing O.D.<br>D1 | Nominal<br>width<br>[mm] | Tubing O.D.<br>D2 | D5<br>ø | D6  | D7   | B1   | H1   | L1   | L2   | Weight/piece<br>[g] | Part no. | Type                  | PU <sup>1)</sup> |
|-------------------|--------------------------|-------------------|---------|-----|------|------|------|------|------|---------------------|----------|-----------------------|------------------|
| 4                 | 2.3                      | –                 | 10.0    | 3.2 | 10.0 | 10.4 | 11.0 | 33.0 | 14.2 | 6.5                 | 133119   | NPQP-Y-Q4-E-FD-P10    | 10               |
| 6                 | 3.6                      | –                 | 12.5    | 3.4 | 13.0 | 13.5 | 12.0 | 38.0 | 15.9 | 9.0                 | 133120   | NPQP-Y-Q6-E-FD-P10    | 10               |
| 8                 | 4.6                      | –                 | 14.5    | 3.4 | 15.0 | 14.5 | 14.0 | 42.4 | 17.2 | 13.0                | 133121   | NPQP-Y-Q8-E-FD-P10    | 10               |
| 10                | 5.9                      | –                 | 17.5    | 4.2 | 17.5 | 18.2 | 18.0 | 48.8 | 19.7 | 22.0                | 133122   | NPQP-Y-Q10-E-FD-P10   | 10               |
| 12                | 7.0                      | –                 | 21.0    | 4.2 | 21.0 | 21.7 | 20.0 | 55.2 | 22.4 | 31.0                | 133123   | NPQP-Y-Q12-E-FD-P10   | 10               |
| <b>Reducing</b>   |                          |                   |         |     |      |      |      |      |      |                     |          |                       |                  |
| 6                 | 2.3                      | 4                 | 12.5    | 3.4 | 13.0 | 13.5 | 12.0 | 37.4 | 15.3 | 8.5                 | 133124   | NPQP-Y-Q6-Q4-FD-P10   | 10               |
| 8                 | 3.6                      | 6                 | 12.5    | 3.4 | 14.5 | 15.1 | 14.0 | 42.6 | 17.4 | 11.5                | 133125   | NPQP-Y-Q8-Q6-FD-P10   | 10               |
| 10                | 4.7                      | 8                 | 14.5    | 4.5 | 17.5 | 18.2 | 18.0 | 48.3 | 19.2 | 18.5                | 133126   | NPQP-Y-Q10-Q8-FD-P10  | 10               |
| 12                | 5.9                      | 10                | 17.5    | 4.5 | 21.0 | 21.7 | 20.0 | 55.0 | 22.2 | 28.5                | 133127   | NPQP-Y-Q12-Q10-FD-P10 | 10               |

1) Packaging unit

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