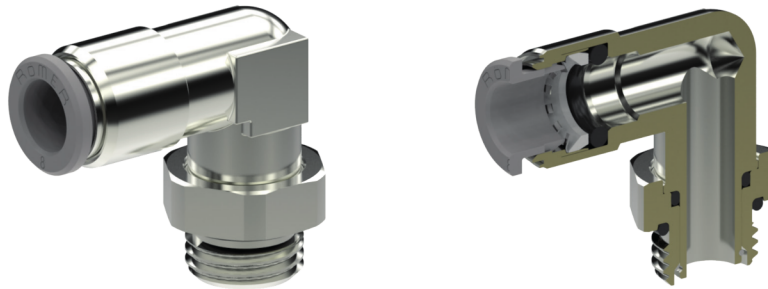


## ELSA Fittings Nickel-Plated Brass (Push-in)

ELSA the perfect push-in fitting from AVS Römer



### Nickel-plated brass version

Operating pressure: Technical vacuum up to maximum pressure as stated in the respective specification table under OP.

Temperature range: -20 °C to +80 °C  
(for restrictions see specification table)

### Application

ELSA push-in fittings can be used with the most varied of gaseous and liquid media. So long as the fitting materials are suitable, application with aggressive media is also possible. See also the information under characteristics.

## CHARACTERISTICS

### BODY MATERIAL / SUITABILITY

|                            |                                                                                                                                                                                                                     |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Nickel-plated brass</b> | <b>CuZn39Pb3, galvanically nickel-plated.</b> Suitable for many neutral gaseous and liquid media, especially compressed air, water, hydraulic oil etc. Special version chemically nickel-plated with FKM seal ring. |
| <b>Other materials</b>     | see relevant products                                                                                                                                                                                               |

### TUBE

|                                 |                                                              |                   |      |
|---------------------------------|--------------------------------------------------------------|-------------------|------|
| <b>Outside diameter [mm]</b>    | 4, 6 and 8                                                   | 10, 12, 14 and 16 | 22   |
| <b>Permitted tolerance [mm]</b> | ±0.1                                                         | ±0.15             | ±0.2 |
| <b>Permitted grades</b>         | Polyamide (PA), polyurethane (PU), fluoropolymer (FEP) (PFA) |                   |      |

### THREAD

|                        |                                                                                                                                                          |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>External thread</b> | "M" cylindrical thread: Metric ISO thread M5, M7                                                                                                         |
| <b>External thread</b> | "G" cylindrical thread: Whitworth pipe thread DIN ISO 228-1 G 1/8 to G 3/4                                                                               |
| <b>External thread</b> | "R" conical thread: Whitworth pipe thread DIN 2999-1 and ISO 7/1 R 1/8 to R 3/4<br>Designed for pairing with internal thread according to DIN ISO 228-1. |
| <b>Internal thread</b> | "G" cylindrical thread: Whitworth pipe thread DIN ISO 228-1 G 1/8 to G 3/4                                                                               |

### OPERATING PRESSURE / TEMPERATURE

|                                                                             |                                                                                                                                                                                                                                                                                   |                                                                                                                                         |                         |                                                                                                                                         |    |                         |
|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|----|-------------------------|
| Metal version                                                               | <table><tr><td>PN</td><td>T<sub>min</sub> -20 °C</td><td rowspan="2">Means that the permitted operating pressure OP corresponds to the given nominal pressure PN within the specified temperature range "T".</td></tr><tr><td>16</td><td>T<sub>max</sub> +80 °C</td></tr></table> | PN                                                                                                                                      | T <sub>min</sub> -20 °C | Means that the permitted operating pressure OP corresponds to the given nominal pressure PN within the specified temperature range "T". | 16 | T <sub>max</sub> +80 °C |
| PN                                                                          | T <sub>min</sub> -20 °C                                                                                                                                                                                                                                                           | Means that the permitted operating pressure OP corresponds to the given nominal pressure PN within the specified temperature range "T". |                         |                                                                                                                                         |    |                         |
| 16                                                                          | T <sub>max</sub> +80 °C                                                                                                                                                                                                                                                           |                                                                                                                                         |                         |                                                                                                                                         |    |                         |
| Permitted operating pressure and temperature of pipe/tube must be observed! |                                                                                                                                                                                                                                                                                   |                                                                                                                                         |                         |                                                                                                                                         |    |                         |

### THREAD SEAL

|                                    |                                          |                                                                                                                                                 |
|------------------------------------|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Cylindrical threaded nipple</b> | Thread sealed by a NBR O-Ring in recess  | applies to all cylindrical threaded nipples                                                                                                     |
| <b>Conical threaded nipple</b>     | Thread self-sealing with pre-coating "D" | Film with non-reactive mineral solid materials, non-adhesive. Resistant to air, water, engine oils etc. in temperature range of -20 °C - +80 °C |

### "POSITIONABLE" VERSION

|                                          |                                                |                                                                                |
|------------------------------------------|------------------------------------------------|--------------------------------------------------------------------------------|
| <b>90° elbow, T and Y adaptors, male</b> | not suitable for rotating or oscill. movements | Some types of fittings are 360°-positionable in order to facilitate alignment. |
|------------------------------------------|------------------------------------------------|--------------------------------------------------------------------------------|

### SPECIAL VERSIONS (VERSIONS NOT INCLUDED IN THE CATALOG)

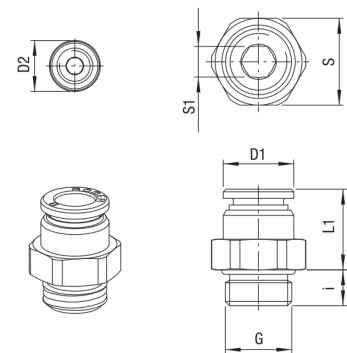
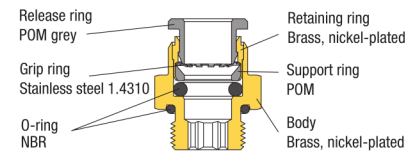
We also manufacture ELSA push-in fittings in various customer-specific versions.

- other O-ring materials, e.g. EPDM, FKM
- for pipe/tube with imperial sizes

## Straight Adaptor - Male

| Price group | 12    | PN 20 | T <sub>min</sub> -20 °C<br>T <sub>max</sub> +80 °C | Cylindrical thread | Thread sealed by a NBR O-ring in recess |     | Nickel-plated brass |               |             |              |       |
|-------------|-------|-------|----------------------------------------------------|--------------------|-----------------------------------------|-----|---------------------|---------------|-------------|--------------|-------|
| for tube D  | G     | i     | L1                                                 | D1                 | D2                                      | S1  | S                   | Weight in [g] | Type        | Order number | Price |
| 4           | M 5   | 3.5   | 16.6                                               | 8                  | -                                       | 2.5 | 8                   | 3.5           | 951M-4-M5   | 340004       | o. r. |
| 4           | M 7   | 4.5   | 15.1                                               | 8                  | 10                                      | 3   | -                   | 3.9           | 951M-4-M7-I | 340237       | o. r. |
| 4           | G 1/8 | 5     | 14                                                 | 9.8                | -                                       | 3   | 13                  | 8.9           | 951M-4-1/8  | 340006       | o. r. |
| 4           | G 1/4 | 7     | 11.8                                               | 9.8                | -                                       | 3   | 17                  | 17            | 951M-4-1/4  | 340007       | o. r. |
| 6           | M 5   | 3.5   | 17.5                                               | 10                 | -                                       | 2.5 | 10                  | 4.7           | 951M-6-M5   | 340010       | o. r. |
| 6           | M 7   | 4.5   | 17.2                                               | 10                 | 10                                      | 3   | -                   | 5             | 951M-6-M7-I | 340238       | o. r. |
| 6           | G 1/8 | 5     | 15.2                                               | 11.8               | -                                       | 4   | 13                  | 8.6           | 951M-6-1/8  | 340012       | o. r. |
| 6           | G 1/4 | 7     | 14.7                                               | 11.8               | -                                       | 4   | 17                  | 17.2          | 951M-6-1/4  | 340013       | o. r. |
| 6           | G 3/8 | 8     | 12                                                 | 11.8               | -                                       | 4   | 19                  | 24            | 951M-6-3/8  | 340014       | o. r. |
| 8           | G 1/8 | 5     | 20.2                                               | 13.8               | -                                       | 5   | 14                  | 12.7          | 951M-8-1/8  | 340016       | o. r. |
| 8           | G 1/4 | 7     | 15.9                                               | 13.8               | -                                       | 6   | 17                  | 15.7          | 951M-8-1/4  | 340017       | o. r. |
| 8           | G 3/8 | 8     | 15.9                                               | 13.8               | -                                       | 6   | 19                  | 24.5          | 951M-8-3/8  | 340018       | o. r. |
| 10          | G 1/4 | 7     | 22.3                                               | 16.4               | -                                       | 7   | 17                  | 21.4          | 951M-10-1/4 | 340021       | o. r. |
| 10          | G 3/8 | 8     | 17.6                                               | 16.4               | -                                       | 8   | 19                  | 22.7          | 951M-10-3/8 | 340022       | o. r. |
| 10          | G 1/2 | 9     | 15.6                                               | 16.4               | -                                       | 8   | 24*                 | 38.1          | 951M-10-1/2 | 340023       | o. r. |
| 12          | G 1/4 | 7     | 25                                                 | 19.8               | -                                       | 7   | 22                  | 35.4          | 951M-12-1/4 | 340024       | o. r. |
| 12          | G 3/8 | 8     | 19.5                                               | 19.8               | -                                       | 10  | 22                  | 27.5          | 951M-12-3/8 | 340025       | o. r. |
| 12          | G 1/2 | 9     | 18.5                                               | 19.8               | -                                       | 10  | 24*                 | 39            | 951M-12-1/2 | 340026       | o. r. |
| 14          | G 3/8 | 8     | 25.5                                               | 21.8               | -                                       | 10  | 22                  | 39.5          | 951M-14-3/8 | 340027       | o. r. |
| 14          | G 1/2 | 9     | 19.5                                               | 21.8               | -                                       | 12  | 24*                 | 34.5          | 951M-14-1/2 | 340028       | o. r. |
| 16          | G 3/8 | 8     | 26.5                                               | 23.8               | -                                       | 10  | 24*                 | 45            | 951M-16-3/8 | 340029       | o. r. |
| 16          | G 1/2 | 9     | 19.5                                               | 23.8               | -                                       | 12  | 24*                 | 30.8          | 951M-16-1/2 | 340030       | o. r. |
| 22          | G 1/2 | 9     | 32.1                                               | 31.6               | -                                       | -   | 32                  | 91.7          | 951M-22-1/2 | 340032       | o. r. |
| 22          | G 3/4 | 11    | 31.1                                               | 31.6               | -                                       | -   | 32                  | 94.3          | 951M-22-3/4 | 340033       | o. r. |

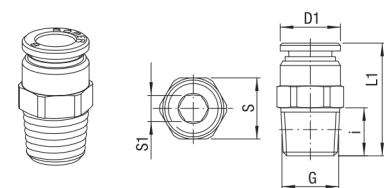
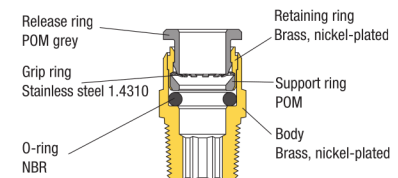
## Illustration



## Straight Adaptor - Male

|             |       |       |                                                    |                |                                          |     |               |               |              |       |                     |
|-------------|-------|-------|----------------------------------------------------|----------------|------------------------------------------|-----|---------------|---------------|--------------|-------|---------------------|
| Price group | 12    | PN 20 | T <sub>min</sub> -20 °C<br>T <sub>max</sub> +80 °C | Conical thread | Thread self-sealing with pre-coating "D" |     |               |               |              |       | Nickel-plated brass |
| for tube D  | G     | i     | L1                                                 | D1             | S1                                       | S   | Weight in [g] | Type          | Order number | Price |                     |
| 4           | R 1/8 | 7.5   | 20.5                                               | 9.8            | 3                                        | 10  | 7.2           | 951M-4-D1/8K  | 340506       | o. r. |                     |
| 6           | R 1/8 | 7.5   | 21.6                                               | 11.8           | 4                                        | 12  | 8.2           | 951M-6-D1/8K  | 340512       | o. r. |                     |
| 6           | R 1/4 | 11    | 24.6                                               | 11.8           | 4                                        | 14  | 16.2          | 951M-6-D1/4K  | 340513       | o. r. |                     |
| 6           | R 3/8 | 11.5  | 22.4                                               | 11.8           | 4                                        | 17  | 25.4          | 951M-6-D3/8K  | 340514       | o. r. |                     |
| 8           | R 1/8 | 7.5   | 27.2                                               | 13.8           | 5                                        | 14  | 13.8          | 951M-8-D1/8K  | 340516       | o. r. |                     |
| 8           | R 1/4 | 11    | 26.7                                               | 13.8           | 6                                        | 14  | 15            | 951M-8-D1/4K  | 340517       | o. r. |                     |
| 8           | R 3/8 | 11.5  | 24.7                                               | 13.8           | 6                                        | 17  | 23.7          | 951M-8-D3/8K  | 340518       | o. r. |                     |
| 10          | R 1/8 | 7.5   | 29.1                                               | 16.4           | 5                                        | 17  | 19.2          | 951M-10-D1/8K | 340520       | o. r. |                     |
| 10          | R 1/4 | 11    | 32.6                                               | 16.4           | 7                                        | 17  | 23.2          | 951M-10-D1/4K | 340521       | o. r. |                     |
| 10          | R 3/8 | 11.5  | 28.1                                               | 16.4           | 8                                        | 17  | 23.7          | 951M-10-D3/8K | 340522       | o. r. |                     |
| 10          | R 1/2 | 14    | 26.6                                               | 16.4           | 8                                        | 22  | 42            | 951M-10-D1/2K | 340523       | o. r. |                     |
| 12          | R 1/4 | 11    | 35                                                 | 19.8           | 7                                        | 22  | 36.3          | 951M-12-D1/4K | 340524       | o. r. |                     |
| 12          | R 3/8 | 11.5  | 30                                                 | 19.8           | 10                                       | 22  | 29.8          | 951M-12-D3/8K | 340525       | o. r. |                     |
| 12          | R 1/2 | 14    | 31.5                                               | 19.8           | 10                                       | 22  | 44.7          | 951M-12-D1/2K | 340526       | o. r. |                     |
| 14          | R 3/8 | 11.5  | 36                                                 | 21.8           | 10                                       | 22  | o. r.         | 951M-14-D3/8K | 340527       | o. r. |                     |
| 14          | R 1/2 | 14    | 32.5                                               | 21.8           | 12                                       | 22  | 38.3          | 951M-14-D1/2K | 340528       | o. r. |                     |
| 16          | R 3/8 | 11.5  | 37                                                 | 23.8           | 10                                       | 24* | 47.4          | 951M-16-D3/8K | 340529       | o. r. |                     |
| 16          | R 1/2 | 16    | 30.5                                               | 23.8           | 12                                       | 27  | 67.6          | 951M-16-D1/4K | 340530       | o. r. |                     |
| 16          | R 3/4 | 16    | 30.5                                               | 23.8           | 12                                       | 27  | 67.6          | 951M-16-D3/4K | 340531       | o. r. |                     |
| 22          | R 3/4 | 16    | 47.1                                               | 31.6           | -                                        | 32  | 64.8          | 951M-22-D3/4K | 340533       | o. r. |                     |

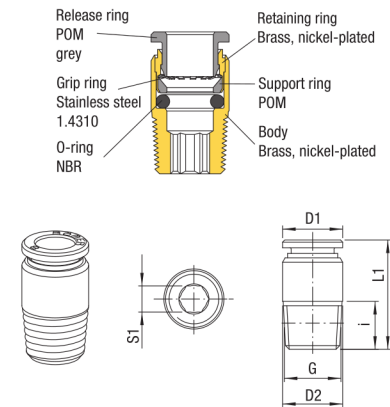
## Illustration



## Straight Adaptor - Male

| Price group | <b>12</b> | PN 20 | T <sub>min</sub> -20 °C<br>T <sub>max</sub> +80 °C | Conical thread | Thread self-sealing with pre-coating "D" |    | Nickel-plated brass |                 |              |       |
|-------------|-----------|-------|----------------------------------------------------|----------------|------------------------------------------|----|---------------------|-----------------|--------------|-------|
| for tube D  | G         | i     | L1                                                 | D1             | D2                                       | S1 | Weight in [g]       | Type            | Order number | Price |
| 4           | R 1/8     | 7.5   | 20                                                 | 9.8            | 9.8                                      | 3  | 6.5                 | 951M-4-D1/8K-I  | 340306       | o. r. |
| 4           | R 1/4     | 11    | 20                                                 | 19.8           | 13.5                                     | 3  | 11.6                | 951M-4-D1/4K-I  | 340307       | o. r. |
| 6           | R 1/8     | 7.5   | 21.1                                               | 11.8           | 11.8                                     | 4  | 7.4                 | 951M-6-D1/8K-I  | 340312       | o. r. |
| 6           | R 1/4     | 11    | 21.6                                               | 11.8           | 13.5                                     | 4  | 11.3                | 951M-6-D1/4K-I  | 340313       | o. r. |
| 8           | R 1/8     | 7.5   | 26.2                                               | 13.8           | 13.8                                     | 5  | 11.8                | 951M-8-D1/8K-I  | 340316       | o. r. |
| 8           | R 1/4     | 11    | 25.2                                               | 13.8           | 13.8                                     | 6  | 12.4                | 951M-8-D1/4K-I  | 340317       | o. r. |
| 10          | R 1/4     | 11    | 30.1                                               | 16.4           | 16.4                                     | 7  | 18                  | 951M-10-D1/4K-I | 340321       | o. r. |

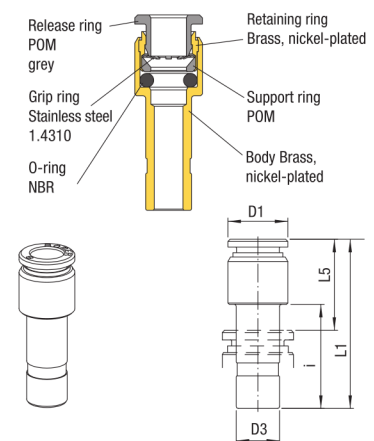
## Illustration



## Straight Stem Reducer

|             |    |       |                                                    |      |                     |               |             |              |       |
|-------------|----|-------|----------------------------------------------------|------|---------------------|---------------|-------------|--------------|-------|
| Price group | 12 | PN 20 | T <sub>min</sub> -20 °C<br>T <sub>max</sub> +80 °C |      | Nickel-plated brass |               |             |              |       |
| for tube D  | D3 | I     | L1                                                 | L5   | D1                  | Weight in [g] | Type        | Order number | Price |
| 4           | 6  | 18    | 31.3                                               | 15.6 | 9.8                 | 6.5           | 947M-4-D6   | 339702       | o. r. |
| 6           | 8  | 20    | 34.1                                               | 16.5 | 11.8                | 9.5           | 947M-6-D8   | 339706       | o. r. |
| 6           | 10 | 24    | 38.1                                               | 18   | 11.8                | 16.1          | 947M-6-D10  | 339707       | o. r. |
| 8           | 10 | 24    | 39.1                                               | 19   | 13.8                | 13.4          | 947M-8-D10  | 339710       | o. r. |
| 8           | 12 | 26    | 41.1                                               | 19.1 | 13.8                | 21            | 947M-8-D12  | 339711       | o. r. |
| 8           | 14 | 26.5  | 40.2                                               | 17.7 | 13.8                | 29.3          | 947M-8-D14  | 339712       | o. r. |
| 10          | 12 | 26    | 42.6                                               | 20.6 | 16.4                | 18.5          | 947M-10-D12 | 339714       | o. r. |
| 10          | 14 | 26.5  | 43.1                                               | 20.6 | 16.4                | 27.8          | 947M-10-D14 | 339715       | o. r. |
| 12          | 14 | 26.5  | 50                                                 | 27.5 | 19.8                | 36.3          | 947M-12-D14 | 339718       | o. r. |

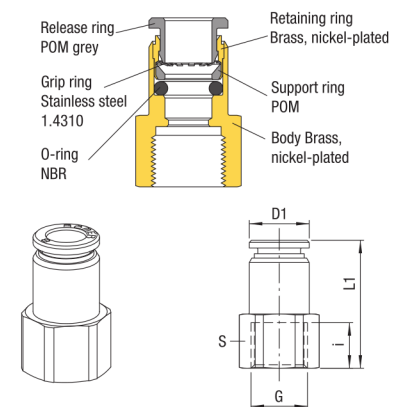
## Illustration



## Straight Adaptor - Female

| Price group | 12    | PN 20 | T <sub>min</sub> -20 °C<br>T <sub>max</sub> +80 °C | Cylindrical thread |     |               |             |              |       | Nickel-plated brass |
|-------------|-------|-------|----------------------------------------------------|--------------------|-----|---------------|-------------|--------------|-------|---------------------|
| for tube D  | G     | i     | L1                                                 | D1                 | S   | Weight in [g] | Type        | Order number | Price |                     |
| 4           | G 1/8 | 7     | 23.8                                               | 9.8                | 13  | 10.9          | 946M-4-1/8  | 340806       | o. r. |                     |
| 4           | G 1/4 | 9     | 26.8                                               | 9.8                | 17  | 18.6          | 946M-4-1/4  | 340807       | o. r. |                     |
| 6           | G 1/8 | 7     | 25.1                                               | 11.8               | 13  | 12.4          | 946M-6-1/8  | 340812       | o. r. |                     |
| 6           | G 1/4 | 9     | 27.6                                               | 11.9               | 17  | 20.1          | 946M-6-1/4  | 340813       | o. r. |                     |
| 8           | G 1/8 | 7     | 27.1                                               | 13.8               | 14  | 16.4          | 946M-8-1/8  | 340816       | o. r. |                     |
| 8           | G 1/4 | 9     | 29.6                                               | 13.8               | 17  | 22            | 946M-8-1/4  | 340817       | o. r. |                     |
| 8           | G 3/8 | 10    | 30.6                                               | 13.8               | 19  | 22.9          | 946M-8-3/8  | 340818       | o. r. |                     |
| 10          | G 1/4 | 9     | 32.1                                               | 16.4               | 17  | 26.6          | 946M-10-1/4 | 340821       | o. r. |                     |
| 10          | G 3/8 | 10    | 33.1                                               | 16.4               | 19  | 26.7          | 946M-10-3/8 | 340822       | o. r. |                     |
| 10          | G 1/2 | 13    | 36.6                                               | 16.4               | 24* | 38.8          | 946M-10-1/2 | 340823       | o. r. |                     |
| 12          | G 3/8 | 10    | 35                                                 | 19.8               | 22  | 46.5          | 946M-12-3/8 | 340827       | o. r. |                     |
| 12          | G 1/2 | 13    | 38.5                                               | 19.8               | 24* | 47.9          | 946M-12-1/2 | 340828       | o. r. |                     |

## Illustration



\* S24 = octagon

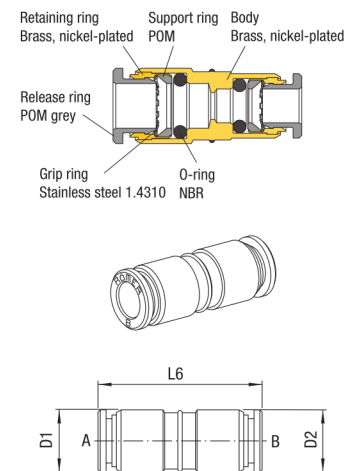
## Straight Connector

|             |           |       |                                                    |
|-------------|-----------|-------|----------------------------------------------------|
| Price group | <b>12</b> | PN 20 | T <sub>min</sub> -20 °C<br>T <sub>max</sub> +80 °C |
|-------------|-----------|-------|----------------------------------------------------|

Nickel-plated brass

| for tube AD | for tube BD | L6   | D1   | D2   | Weight in [g] | Type      | Order number | Price |
|-------------|-------------|------|------|------|---------------|-----------|--------------|-------|
| 4           | 4           | 31   | 9.8  | 9.8  | 8.5           | 958M-4    | 347004       | o. r. |
| 6           | 4           | 32.4 | 11.8 | 9.8  | 9.8           | 958M-6-4  | 347008       | o. r. |
| 6           | 6           | 33.8 | 11.8 | 11.8 | 11.3          | 958M-6    | 347010       | o. r. |
| 8           | 6           | 34.7 | 13.8 | 11.8 | 14.6          | 958M-8-6  | 347011       | o. r. |
| 8           | 8           | 36.7 | 13.8 | 13.8 | 16.4          | 958M-8    | 347012       | o. r. |
| 10          | 8           | 39.7 | 16.4 | 13.8 | 19.3          | 958M-10-8 | 347014       | o. r. |
| 10          | 10          | 41.7 | 16.4 | 16.4 | 21.2          | 958M-10   | 347015       | o. r. |

## Illustration



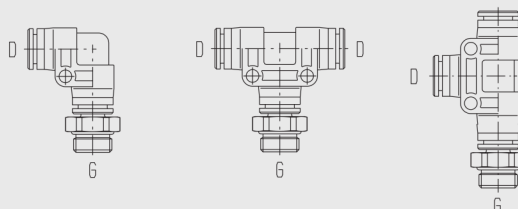
## Straight Stem Adaptor

|             |           |       |                    |                                                    |                                         |
|-------------|-----------|-------|--------------------|----------------------------------------------------|-----------------------------------------|
| Price group | <b>12</b> | PN 20 | Cylindrical thread | T <sub>min</sub> -20 °C<br>T <sub>max</sub> +80 °C | Thread sealed by a NBR O-ring in recess |
|-------------|-----------|-------|--------------------|----------------------------------------------------|-----------------------------------------|

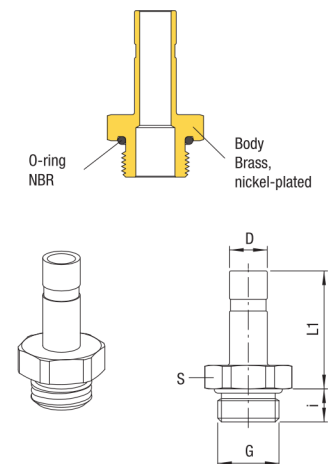
Nickel-plated brass

| for stem D | G     | i | L1   | S   | Weight in [g] | Type        | Order number | Price |
|------------|-------|---|------|-----|---------------|-------------|--------------|-------|
| 4          | G 1/8 | 5 | 21.5 | 13  | 7.1           | 908M-4-1/8  | 337506       | o. r. |
| 4          | G 1/4 | 7 | 22   | 17  | 14.3          | 908M-4-1/4  | 337507       | o. r. |
| 6          | G 1/8 | 5 | 22.5 | 13  | 8             | 908M-6-1/8  | 337512       | o. r. |
| 6          | G 1/4 | 7 | 23   | 17  | 14.3          | 908M-6-1/4  | 337513       | o. r. |
| 8          | G 1/8 | 5 | 24.5 | 13  | 9.3           | 908M-8-1/8  | 337516       | o. r. |
| 8          | G 1/4 | 7 | 25   | 17  | 15.9          | 908M-8-1/4  | 337517       | o. r. |
| 10         | G 1/4 | 7 | 29   | 17  | 16.5          | 908M-10-1/4 | 337521       | o. r. |
| 10         | G 3/8 | 8 | 29   | 19  | 19.5          | 908M-10-3/8 | 337522       | o. r. |
| 10         | G 1/2 | 9 | 29.5 | 24* | o. r.         | 908M-10-1/2 | 337523       | o. r. |
| 12         | G 1/4 | 7 | 31   | 17  | 25.8          | 908M-12-1/4 | 337524       | o. r. |
| 12         | G 3/8 | 8 | 31   | 19  | 23.7          | 908M-12-3/8 | 337525       | o. r. |
| 12         | G 1/2 | 9 | 31.5 | 24* | 36            | 908M-12-1/2 | 337526       | o. r. |
| 14         | G 3/8 | 8 | 31.5 | 19  | 27            | 908M-14-3/8 | 337527       | o. r. |
| 14         | G 1/2 | 9 | 32   | 24* | 37.9          | 908M-14-1/2 | 337528       | o. r. |
| 16         | G 1/2 | 9 | 32.5 | 24* | 39.6          | 908M-16-1/2 | 337530       | o. r. |

Examples of possible combinations with ELSA push-in connectors to get rotatable connections



## Illustration



\* S24 = octagon

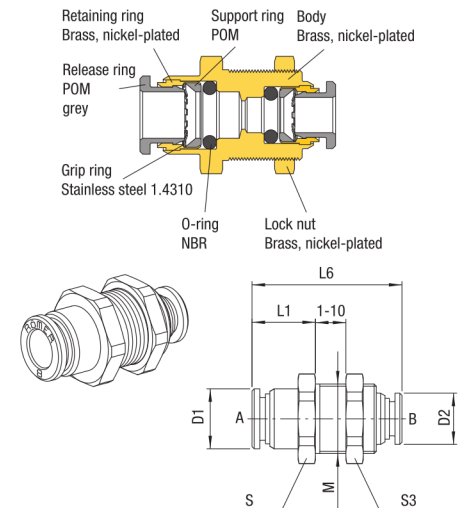
## Straight Bulkhead Connector

Price group **12** PN 20  $T_{min}$  -20 °C  $T_{max}$  +80 °C

Nickel-plated brass

| for tube AD | for tube BD | M       | L1   | L6   | D1   | D2   | S   | S3  | Weight in [g] | Type      | Order number | Price |
|-------------|-------------|---------|------|------|------|------|-----|-----|---------------|-----------|--------------|-------|
| 4           | 4           | M12x1   | 12.3 | 31.1 | 9.8  | 9.8  | 14  | 17  | 17.3          | 959M-4    | 348704       | o. r. |
| 6           | 4           | M14x1   | 12.6 | 31.4 | 11.8 | 9.8  | 17  | 17  | 23.7          | 959M-6-4  | 348708       | o. r. |
| 6           | 6           | M14x1   | 13.6 | 32.5 | 11.8 | 11.8 | 17  | 17  | 22.3          | 959M-6    | 348710       | o. r. |
| 8           | 6           | M16x1   | 14.7 | 34.6 | 13.8 | 11.8 | 19  | 19  | 30.8          | 959M-8-6  | 348711       | o. r. |
| 8           | 8           | M16x1   | 16.5 | 36.7 | 13.8 | 13.8 | 19  | 19  | 29.6          | 959M-8    | 348712       | o. r. |
| 10          | 8           | M20x1   | 19   | 39.2 | 16.4 | 13.8 | 22  | 24* | 51.3          | 959M-10-8 | 348714       | o. r. |
| 10          | 10          | M20x1   | 19.9 | 41   | 16.4 | 16.4 | 22  | 24* | 50.9          | 959M-10   | 348715       | o. r. |
| 12          | 12          | M22x1.5 | 22.3 | 45.6 | 19.8 | 19.8 | 24* | 27  | 68.8          | 959M-12   | 348717       | o. r. |
| 14          | 14          | M24x1.5 | 23.3 | 46.6 | 21.8 | 21.8 | 27  | 27  | 84            | 959M-14   | 348719       | o. r. |

## Illustration



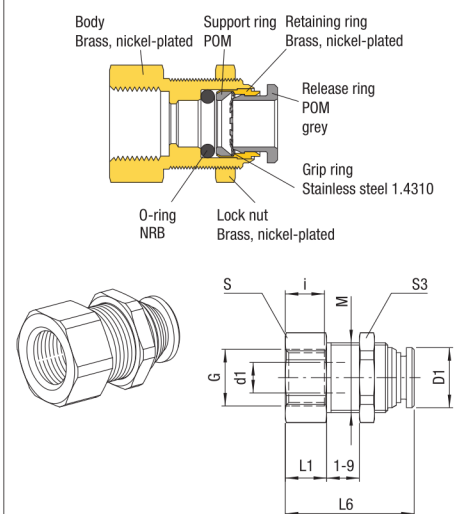
## Straight Bulkhead Adaptor

Price group **12** PN 20  $T_{min}$  -20 °C  $T_{max}$  +80 °C Cylindrical thread

Nickel-plated brass

| for tube D | G     | M       | L1   | i    | L6   | d1 | D1   | S4 | S3  | Weight in [g] | Type        | Order number | Price |
|------------|-------|---------|------|------|------|----|------|----|-----|---------------|-------------|--------------|-------|
| 4          | G 1/8 | M12x1   | 6.5  | 7    | 25.3 | 3  | 9.8  | 14 | 17  | 17.5          | 945M-4-1/8  | 348806       | o. r. |
| 6          | G 1/8 | M14x1   | 6.5  | 7    | 25.4 | 5  | 11.8 | 17 | 17  | 22.6          | 945M-6-1/8  | 348812       | o. r. |
| 6          | G 1/4 | M14x1   | 12   | 9    | 30.9 | 5  | 11.8 | 17 | 17  | 27.4          | 945M-6-1/4  | 348813       | o. r. |
| 8          | G 1/8 | M16x1   | 7    | 7    | 27.2 | 7  | 13.8 | 19 | 19  | 30.9          | 945M-8-1/8  | 348816       | o. r. |
| 8          | G 1/4 | M16x1   | 9.5  | 9    | 29.7 | 7  | 13.8 | 19 | 19  | 31.6          | 945M-8-1/4  | 348817       | o. r. |
| 10         | G 1/4 | M20x1   | 11   | 9    | 32.1 | 9  | 16.4 | 22 | 24* | 56.2          | 945M-10-1/4 | 348821       | o. r. |
| 10         | G 3/8 | M20x1   | 12   | 10   | 33.1 | 9  | 16.4 | 22 | 24* | 50.4          | 945M-10-3/8 | 348822       | o. r. |
| 22         | G 3/4 | M33x1.5 | 18.2 | 15.5 | 48.1 | 20 | 31.6 | 36 | 41  | 198.9         | 945M-22-3/4 | 348833       | o. r. |

## Illustration



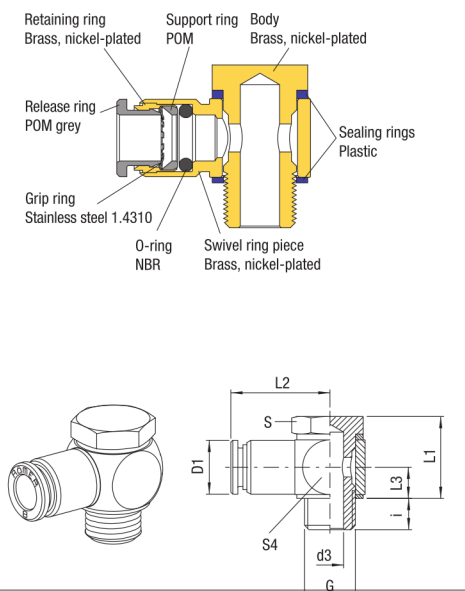
## Banjo Fitting

Price group **12** PN 20  $T_{min}$  -20 °C  $T_{max}$  +80 °C Cylindrical thread

Nickel-plated brass

| for tube D | G     | i** | L1** | L2   | L3** | d3 | D1   | S4 | S  | Weight in [g] | Type        | Order number | Price |
|------------|-------|-----|------|------|------|----|------|----|----|---------------|-------------|--------------|-------|
| 4          | M 5   | 4.5 | 13.5 | 17.1 | 5    | 2  | 8    | 9  | 8  | 9             | 952M-4-M5N  | 370004       | o. r. |
| 4          | G 1/8 | 6   | 20.5 | 20.8 | 8    | 5  | 9.8  | 14 | 14 | 28.5          | 952M-4-1/8N | 370006       | o. r. |
| 6          | M 5   | 4.5 | 14.5 | 18.7 | 5.5  | 2  | 10   | 10 | 8  | 12.3          | 952M-6-M5N  | 370010       | o. r. |
| 6          | G 1/8 | 6   | 20.5 | 21.6 | 8    | 5  | 11.8 | 14 | 14 | 29.9          | 952M-6-1/8N | 370012       | o. r. |
| 6          | G 1/4 | 8   | 21   | 23.6 | 8    | 7  | 11.8 | 18 | 17 | 46.6          | 952M-6-1/4N | 370013       | o. r. |
| 8          | G 1/8 | 6   | 20.5 | 23.6 | 8    | 5  | 13.8 | 14 | 14 | 31.5          | 952M-8-1/8N | 370016       | o. r. |
| 8          | G 1/4 | 8   | 21   | 25.6 | 8    | 7  | 13.8 | 18 | 17 | 48.6          | 952M-8-1/4N | 370017       | o. r. |

## Illustration



\* S24 = octagon \* Approximate dimensions with tightened union nut \*\* Approximate dimensions with tightened screw connection