# Pneufit® S
# Stainless steel Push-in fittings

- Developed to carry corrosive fluids or to be used in aggressive environments
- Ideal for direct contact with food fluids
- Can be used in salty environments and on machines that need frequent washing with aggressive detergents
- Certified NSF 169 and conforming to NSF 61 & NSF 372 standards
- Compliant with Food Contact Materials - Regulation (EC) 1935/2004
- Cleanline design
- Tube size: Ø 4 ... 12 mm O/D
- ISO G and ISO R threads
- Swivel function on all elbows and tees
- Quick connection and disconnection
- Silicon free

## Technical features

**Medium:**
Compressed air
(For other media please consult Technical Department)

**Operating pressure:**
Vacuum ... 20 bar (... 290 psi)
(Dependent upon operating specification of tubing)

**Vacuum:**
-750 mm of Hg i.e. 99%

**Tube sizes:**
4, 6, 8, 10, 12 mm O/D

**Thread sizes:**
ISO R, ISO G, Metric M5

**Standard:**
Conforms to BS EN 14743 - Pneumatic fluid power - Push-in connectors for thermoplastic tubes

**Tubing types:**
PA6, PA11, PA12, Polyethylene, Polyurethane*, PTFE, FEP.
*Use from 90 to 98 Shore, for maximum performance 98 Shore A is recommended.

**Ambient/Media temperature:**
-15°C ... +190°C (+5 ... 374°F)

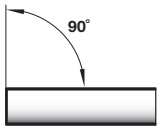
**Materials:**
Body, release sleeve and grab ring: AISI 316L stainless steel
'O'-ring & thread seal (BSPP): FKM
Lubricants: FDA approved

**Note:** All raw materials and manufacturing processes are Silicon free. To guarantee sealed packaging please contact Norgren technical support.

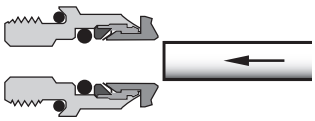
## Food and beverage compliance:
NSF 169, NSF 61 and NSF 372
EC 1935/2004

## Typical applications:
Food and Beverage, Automation with Washing, Farming, Mining, Chemical, Petrolchemical, Pharmaceutical, Medical, Life Sciences, Vacuum

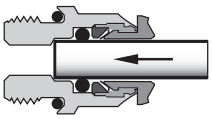
## Method of assembly



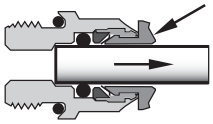

1. Ensure that the end of the tube is cleanly cut and square.



2. Push the tube through the release sleeve into the fitting.

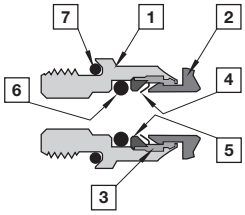


3. Continue pushing the tube through the 'O'-ring until it bottoms on the tube stop then pull back.



4. To disconnect push the tube into the fitting, hold down the release sleeve and withdraw the tube.

## Components




1 Body
2 Release sleeve
3 Retainer
4 Grab ring
5 Bracking ring
6 'O'-ring
7 'O'-ring

## Straight adaptors and connectors

| Straight adaptor<br>ISO R<br>S0125 | Straight adaptor, ISO G<br>S0225 | Straight female adaptor<br>ISO G<br>S0226 | Straight connector<br>S0020 | Straight stem adaptor<br>ISO G<br>S0215 | Reducing connector<br>S0023 | Bulkhead connector<br>S0029 |
|---|---|---|---|---|---|---|
|  |  |  |  |  |  |  |
| Page 3 | Page 3 | Page 3 | Page 3 | Page 3 | Page 3 | Page 4 |

## Elbow adaptors and connectors

| Swivel elbow adaptor<br>ISO R<br>S0147 | Swivel elbow adaptor<br>ISO G<br>S0247 | Elbow connector<br>S0040 |
|---|---|---|
|  |  |  |
| Page 4 | Page 4 | Page 4 |

## Tee, Y adaptors and connectors

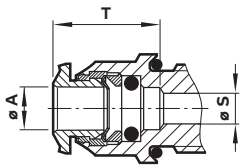
| Swivel tee adaptor<br>ISO R<br>S0167 | Swivel tee adaptor<br>ISO G<br>S0267 | Tee connector<br>S0060 |
|---|---|---|
|  |  |  |
| Page 5 | Page 5 | Page 5 |

## Accessories

| Plug<br>ISO G<br>66005 | Sleeve adaptor<br>ISO G<br>66022 | Tee connector<br>ISO G<br>66062 |
|---|---|---|
|  |  |  |
| Page 6 | Page 6 | Page 6 |

## Technical data

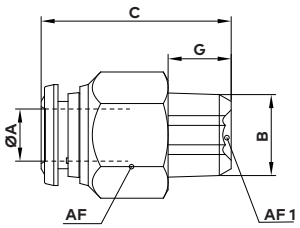
| Ø A<br>O/D tube | Ø S | T *2) |
|---|---|---|
| 4 | 3,1 | 14 |
| 6 | 4,1 | 16 |
| 8 (1/8" thread *1)) | 5,1 | 16 |
| 8 (1/4" thread *1)) | 8,1 | 16 |
| 10 | 8,1 | 20,5 |
| 12 (3/8" thread *1)) | 8,1 | 22,5 |
| 12 (1/2" thread *1)) | 10,1 | 22,5 |




*1) Straight fittings with threads have an internal hexagon to suit an Allen key - refer to tables below for sizes

*2) Dimension with the release sleeve in the "IN" position

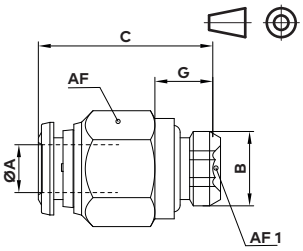
## Straight adaptor, ISO R
## S0125




| Ø A | B | C | G | AF | AF1 | Weight (g) | Model |
|---|---|---|---|---|---|---|---|
| 4 | R1/8 | 19 | 7,5 | 10 | 3 | 8 | S01250418 |
| 4 | R1/4 | 23 | 11 | 14 | 3 | 18 | S01250428 |
| 6 | R1/8 | 22,5 | 7,5 | 13 | 4 | 12 | S01250618 |
| 6 | R1/4 | 24,5 | 11 | 14 | 4 | 18 | S01250628 |
| 8 | R1/8 | 25,5 | 7,5 | 14 | 5 | 15 | S01250818 |
| 8 | R1/4 | 25 | 11 | 14 | 6 | 15 | S01250828 |
| 10 | R1/4 | 30,5 | 11 | 17 | 7 | 25 | S01251028 |
| 10 | R3/8 | 28 | 11,5 | 17 | 8 | 26 | S01251038 |
| 12 | R3/8 | 33,5 | 11,5 | 21 | 9 | 43 | S01251238 |
| 12 | R1/2 | 32 | 14 | 22 | 10 | 50 | S01251248 |

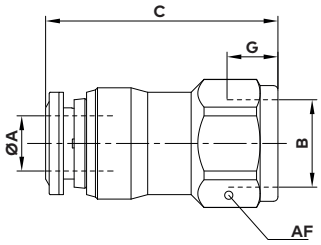
## Straight adaptor, ISO G
## S0225

Dimensions in mm
Projection/First angle



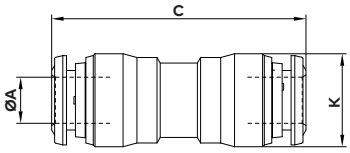

| Ø A | B | C | G | Ø K | AF | AF1 | Weight (g) | Model |
|---|---|---|---|---|---|---|---|---|
| 4 | M5 | 20 | 4 | 8 | 10 | 2 | 9 | S02250405 |
| 4 | G1/8 | 19,5 | 6 | 13 | 10 | 3 | 8 | S02250418 |
| 4 | G1/4 | 19,5 | 8 | 15 | 15 | 3 | 15 | S02250428 |
| 6 | G1/8 | 23,5 | 6 | 13 | 13 | 4 | 13 | S02250618 |
| 6 | G1/4 | 23,5 | 8 | 15 | 15 | 4 | 18 | S02250628 |
| 8 | G1/8 | 25,5 | 6 | 13 | 14 | 5 | 15 | S02250818 |
| 8 | G1/4 | 23,5 | 8 | 15 | 15 | 6 | 16 | S02250828 |
| 10 | G1/4 | 30 | 8 | 16 | 17 | 8 | 26 | S02251028 |
| 10 | G3/8 | 27 | 9 | 20 | 17 | 8 | 26 | S02251038 |
| 12 | G3/8 | 34 | 9 | 21 | 21 | 8 | 47 | S02251238 |
| 12 | G1/2 | 31 | 10 | 25 | 22 | 10 | 49 | S02251248 |

## Straight female adaptor ISO G
## S0226



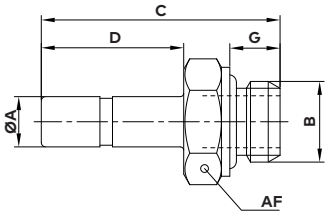

| Ø A | B | C | G | AF | Weight (g) | Model |
|---|---|---|---|---|---|---|
| 4 | G1/8 | 25 | 8.5 | 13 | 12 | S02260418 |
| 6 | G1/8 | 26 | 8.5 | 13 | 14 | S02260618 |
| 8 | G1/8 | 29.5 | 11 | 15 | 19 | S02260628 |
| 6 | G1/4 | 27 | 8.5 | 16 | 19 | S02260818 |
| 8 | G1/4 | 29.5 | 11 | 17 | 23 | S02260828 |

## Straight connector
## S0020



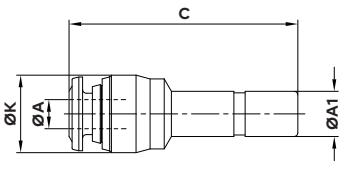

| Ø A | C | Ø K | Weight (g) | Model |
|---|---|---|---|---|
| 4 | 31 | 10,5 | 10 | S00200400 |
| 6 | 35 | 12,5 | 15 | S00200600 |
| 8 | 36,5 | 14,5 | 19 | S00200800 |
| 10 | 42 | 17,5 | 32 | S00201000 |
| 12 | 48 | 20,5 | 49 | S00201200 |

## Straight stem adaptor ISO G
## S0215




| Ø A | B | C | D | G | AF | Weight (g) | Model |
|---|---|---|---|---|---|---|---|
| 6 | G1/8 | 28,5 | 17 | 6 | 13 | 9 | S02150618 |
| 8 | G1/4 | 31,5 | 18 | 8 | 16 | 23 | S02150828 |
| 10 | G3/8 | 37,5 | 22 | 9 | 20 | 26 | S02151038 |
| 12 | G1/2 | 42,5 | 24,5 | 10 | 24 | 42 | S02151248 |

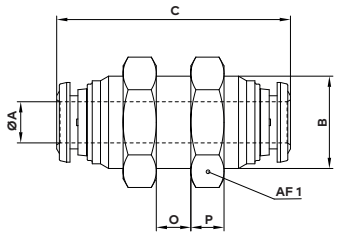
## Reducing connector
## S0023




| Ø A | Ø A1 | Ø K | C | Weight (g) | Model |
|---|---|---|---|---|---|
| 6 | 4 | 30,5 | 10,5 | 7 | S00230604 |
| 8 | 6 | 34 | 12,5 | 11 | S00230806 |
| 10 | 8 | 38 | 14,5 | 15 | S00231008 |
| 12 | 10 | 42 | 17,5 | 23 | S00231210 |

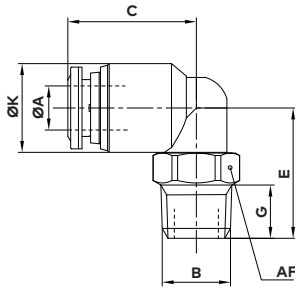
## Bulkhead connector
## S0029

Dimensions in mm
Projection/First angle



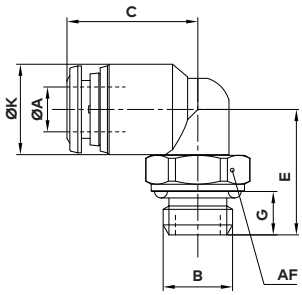

| Ø A | B | C | O max. | P | AF | Weight (g) | Model |
|---|---|---|---|---|---|---|---|
| 4 | M12X1 | 31 | 7 | 4,5 | 17 | 24 | S00290400 |
| 6 | M14x1 | 35 | 9,5 | 5 | 17 | 28 | S00290600 |
| 8 | M16x1 | 37 | 10,5 | 5,5 | 19 | 37 | S00290800 |
| 10 | M20X1 | 42 | 12,5 | 6 | 24 | 67 | S00291000 |
| 12 | M22x1 | 48 | 16,5 | 6 | 26 | 88 | S00291200 |

## Swivel elbow adaptor, ISO R
## S0147



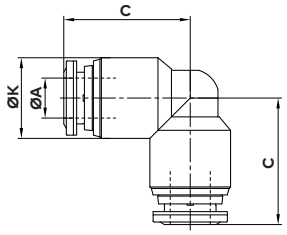

| Ø A | B | C | E | G | Ø K | AF | Weight (g) | Model |
|---|---|---|---|---|---|---|---|---|
| 4 | R1/8 | 15,5 | 17 | 7,5 | 10 | 11 | 12 | S01470418L |
| 4 | R1/4 | 15,5 | 21 | 11 | 10 | 14 | 20 | S01470428L |
| 6 | R1/8 | 18 | 18,5 | 7,5 | 12,5 | 11 | 16 | S01470618L |
| 6 | R1/4 | 18 | 22,5 | 11 | 12,5 | 14 | 24 | S01470628L |
| 8 | R1/8 | 20 | 23 | 7,5 | 14,5 | 12 | 22 | S01470818L |
| 8 | R1/4 | 20 | 23,5 | 11 | 14,5 | 14 | 27 | S01470828L |
| 10 | R1/4 | 23,5 | 28,5 | 11 | 17,5 | 15 | 38 | S01471028L |
| 10 | R3/8 | 23,5 | 26 | 11,5 | 17,5 | 17 | 42 | S01471038L |
| 10 | R1/2 | 23,5 | 29,5 | 14 | 17,5 | 22 | 61 | S01471048L |
| 12 | R3/8 | 27,5 | 32,5 | 11,5 | 20,5 | 17 | 64 | S01471238L |
| 12 | R1/2 | 27,5 | 31,5 | 14 | 20,5 | 22 | 74 | S01471248L |

## Swivel elbow adaptor, ISO G
## S0247



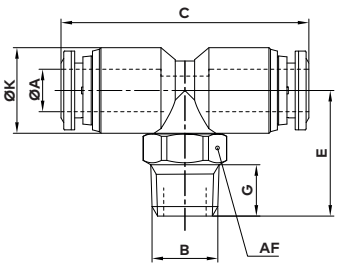

| Ø A | B | C | E | G | Ø K | AF | Weight (g) | Model |
|---|---|---|---|---|---|---|---|---|
| 4 | M5 | 15,5 | 16 | 4 | 10 | 8 | 8 | S02470405L |
| 4 | G1/8 | 15,5 | 16 | 6 | 10 | 13 | 12 | S02470418L |
| 4 | G1/4 | 15,5 | 18,5 | 8 | 10 | 15 | 17 | S02470428L |
| 6 | G1/8 | 18 | 17,5 | 6 | 12,5 | 13 | 16 | S02470618L |
| 6 | G1/4 | 18 | 20 | 8 | 12,5 | 15 | 22 | S02470628L |
| 8 | G1/8 | 20 | 23 | 6 | 14,5 | 13 | 23 | S02470818L |
| 8 | G1/4 | 20 | 21 | 8 | 14,5 | 15 | 24 | S02470828L |
| 10 | G1/4 | 23,5 | 27,5 | 8 | 17 | 15 | 36 | S02471028L |
| 10 | G3/8 | 23,5 | 25 | 9 | 17 | 20 | 45 | S02471038L |
| 10 | G1/2 | 23,5 | 26,5 | 10 | 17 | 25 | 60 | S02471048L |
| 12 | G3/8 | 27,5 | 30,5 | 9 | 20,5 | 20 | 65 | S02471238L |
| 12 | G1/2 | 27,5 | 28,5 | 10 | 20,5 | 25 | 73 | S02471248L |

## Elbow connector
## S0040




| Ø A | C | Ø K | Weight (g) | Model |
|---|---|---|---|---|
| 4 | 16 | 10 | 8 | S00400400L |
| 6 | 19,5 | 12,5 | 15 | S00400600L |
| 8 | 21 | 14,5 | 20 | S00400800L |
| 10 | 24,5 | 17 | 30 | S00401000L |
| 12 | 29 | 20,5 | 52 | S00401200L |

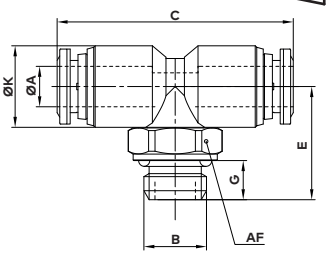
## Swivel tee adaptor, ISO R
## S0167




| Ø A | B | C | E | G | Ø K | AF | Weight (g) | Model |
|---|---|---|---|---|---|---|---|---|
| 4 | R1/8 | 30,5 | 17 | 7,5 | 10 | 11 | 14 | S01670418L |
| 6 | R1/8 | 36 | 20,5 | 7,5 | 12,5 | 11 | 20 | S01670618L |
| 6 | R1/4 | 36 | 22,5 | 11 | 12,5 | 14 | 28 | S01670628L |
| 8 | R1/8 | 40 | 23 | 7,5 | 14,5 | 12 | 28 | S01670818L |
| 8 | R1/4 | 40 | 23,5 | 11 | 14,5 | 14 | 32 | S01670828L |

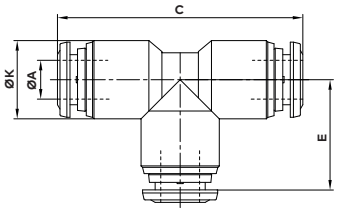
## Swivel tee adaptor, ISO G
## S0267

Dimensions in mm
Projection/First angle



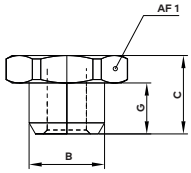

| Ø A | B | C | E | G | Ø K | AF | Weight (g) | Model |
|---|---|---|---|---|---|---|---|---|
| 4 | G1/8 | 30,5 | 16 | 6 | 10 | 13 | 14 | S02670418L |
| 6 | G1/8 | 36 | 17,5 | 6 | 12,5 | 13 | 20 | S02670618L |
| 6 | G1/4 | 36 | 20 | 8 | 12,5 | 15 | 26 | S02670628L |
| 8 | G1/8 | 40 | 23 | 6 | 14,5 | 13 | 29 | S02670818L |
| 8 | G1/4 | 40 | 21 | 8 | 14,5 | 15 | 30 | S02670828L |
| 10 | G1/4 | 47 | 27,5 | 8 | 17 | 15 | 44 | S02671028L |
| 10 | G3/8 | 47 | 25 | 9 | 17 | 20 | 52 | S02671038L |

## Tee connector
## S0060




| Ø A | C | E | Ø K | Weight (g) | Model |
|---|---|---|---|---|---|
| 4 | 32 | 16 | 10 | 10 | S00600400L |
| 6 | 39 | 19,5 | 12,5 | 19 | S00600600L |
| 8 | 42 | 21 | 14,5 | 26 | S00600800L |
| 10 | 49 | 24,5 | 17 | 38 | S00601000L |
| 12 | 57,5 | 29 | 20,5 | 67 | S00601200L |

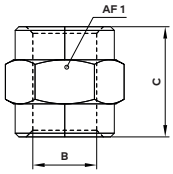
## Plug
## 66005




| B | C | G | AF | Weight (g) | Model |
|---|---|---|---|---|---|
| G 1/8 | 10 | 6,5 | 14 | 7 | 660050018 |
| G 1/4 | 13 | 9 | 17 | 14 | 660050028 |
| G 3/8 | 13,5 | 9,5 | 19 | 17 | 660050038 |
| G 1/2 | 14,5 | 10 | 24 | 26 | 660050048 |

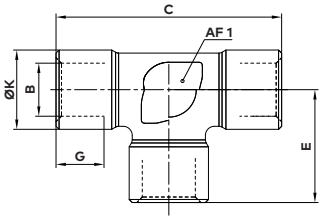
## Sleeve adaptor
## 66022

Dimensions in mm
Projection/First angle




| B | C | Ø K | AF | Weight (g) | Model |
|---|---|---|---|---|---|
| G 1/8 | 15 | 13,5 | 14 | 11 | 660221818 |
| G 1/4 | 22 | 16,5 | 17 | 21 | 660222828 |
| G 3/8 | 24 | 21,5 | 22 | 33 | 660223838 |
| G 1/2 | 30 | 25,5 | 27 | 62 | 660224848 |

## Tee connector
## 66062




| B | C | E | G | Ø K | Ø S | AF | Weight (g) | Model |
|---|---|---|---|---|---|---|---|---|
| G 1/8 | 37 | 18,5 | 8,5 | 18,5 | 6 | 12 | 32 | 660620018 |
| G 1/4 | 49 | 24,5 | 11 | 24,5 | 8 | 12 | 50 | 660620028 |
| G 3/8 | 54 | 27 | 12 | 27 | 11 | 15 | 77 | 660620038 |
| G 1/2 | 64 | 32 | 15 | 32 | 15 | 20 | 146 | 660620048 |

## Warning

These products are intended for use in industrial compressed air systems only. Do not use these products where pressures and temperatures can exceed those listed under **»Technical features/ data«**.
Before using these products with fluids other than those specified, for non-industrial applications, life-support systems or other applications not within published specifications, consult Norgren.
Through misuse, age, or malfunction, components used in fluid power systems can fail in various modes.

The system designer is warned to consider the failure modes of all component parts used in fluid power systems and to provide adequate safeguards to prevent personal injury or damage to equipment in the event of such failure.
System designers must provide a warning to end users in the system instructional manual if protection against a failure mode cannot be adequately provided.
System designers and end users are cautioned to review specific warnings found in instruction sheets packed and shipped with these products.