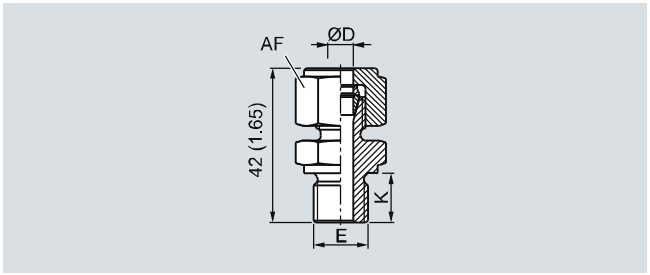
| Selection and Ordering data | Order No.Ord. Code | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **SITRANS TS100**<br>**Temperature sensors in cable version, universal use, mineral-insulated version, for unfavorable space conditions** | 7 | M | C | 7 | 1 | 1 | ○ | | |
| **Sensor diameter** | | | | | | | | | |
| • 6 mm (0.24 inch) | 6 | | | | | | | | |
| • Special version | 7 | | | | | | | H | 1 Y |
| **Length of sensor element B, effective length U=B-10** | | | | | | | | | |
| • 200 mm (7.87 inch) | | | C | | | | | | |
| • 500 mm (19.68 inch) | | | D | | | | | | |
| • 1 000 mm (39.37 inch) | | | E | | | | | | |
| **Customer-specific length of sensor element B, effective length U=B-10**<br>enter customer specific length with Y44, see order codes below | | | | | | | | | |
| • 70 ... 100 mm (2.76 ... 3.94 inch)<br>Standard: 100 mm (3.94 inch) | | | B | | | | | | |
| • 101 ... 250 mm (3.98 ... 9.84 inch)<br>Standard: 200 mm (7.87 inch) | | | C | | | | | | |
| • 251 ... 500 mm (9.88 ... 19.68 inch)<br>Standard: 500 mm (19.68 inch) | | | D | | | | | | |
| • 501 ... 750 mm (19.72 ... 29.53 inch)<br>Standard: 750 mm (29.53 inch) | | | E | | | | | | |
| • 751 ... 1 000 mm (19.72 ... 39.37 inch)<br>Standard: 1 000 mm (39.37 inch) | | | F | | | | | | |
| • 1 001 ... 1500 mm (39.4 ... 59.00 inch)<br>Standard: 1500 mm (59.00 inch) | | | G | | | | | | |
| **Special length of sensor element, effective length U=B-10** | | | | | | | | | |
| • Special length<br>Sensor element >1 500 mm (59.06 inch) | | | X | | | | | | |
| **Sensor** | | | | | | | | | |
| • Pt100, basis, -50 ... +400 °C (-58 ... +752 °F) | | | | A | | | | | |
| • Pt100, vibration-resitant, -50 ... +400 °C (-58 ... +752 °F) | | | | B | | | | | |
| • Thermocouple Type K, -40 ... +1000 °C (-40 .... +1 832 °F) | | | | K | | | | | |
| • Thermocouple Type J, only class 2, -40 ... +750 °C (-40 ... +1 382 °F) | | | | J | | | | | |
| **Sensor number/Accuracy** | | | | | | | | | |
| • Single, basic accuracy (Class 2/Class B) | | | | | 1 | | | | |
| • Single, increased accuracy (Class 1/Class A) | | | | | 2 | | | | |
| • Single, highest accuracy (Class AA) | | | | | 3 | | | | |
| • Double, basic accuracy (Class 2/Class B) | | | | | 4 | | | | |
| • Double, increased accuracy (Class 1/Class A) | | | | | 5 | | | | |
| • Double, highest accuracy (Class AA) | | | | | 6 | | | | |
| • Special version of sensor type, number and accuracy | | | | Z | 0 | | | K | 1 Y |
| **Design of connection side** | | | | | | | | | |
| • Flying leads | | | | | | 1 | | | |
| • LEMO coupling 1S | | | | | | 2 | | | |
| • M12 connector, not for double Pt100 | | | | | | 3 | | | |
| • Thermocouple coupling, from TC-material (2xTC on request) | | | | | | 4 | | | |
| • Special version, connection side | | | | | | 9 | | M | 1 Y |

| Selection and Ordering data | Order code |
|---|---|
| ***Further designs***<br>Add "-Z" to Order No. and specify Order Code. | |
| **Enter sensor diameter**<br>in plain text | **H1Y** |
| **Enter sensor type, number and accuracy**<br>in plain text | **K1Y** |
| **Enter type of connection side**<br>in plain text | **M1Y** |
| **Customer-specific length of sensor element B, effective length U=B-10**<br>Select range, enter desired length in plain text<br>(No entry = standard length) | **Y44** |
| ***Options***<br>Add "-Z" to order number, add options, separate extensions with "+". | |
| **Connection cable, type and length**<br>Cable type = 1st letter,<br>Length 1 ... 99 m (3.28 ... 324.80 ft) = 2nd + 3rd place<br>e.g.: 34 m (111.55 ft) connection cable PVC (PVC code is J34) | |
| • with ?? meters connection cable (JJ) PVC/PVC, Operating temperature (-10...+105°C) | **J01 ... J99** |
| • with ?? meters connection cable (SLFP) Silicone/Fluorpolymer, operating temperature -100 ... +205 °C (-148 ... +401 °F) | **S01 ... S99** |
| • with ?? meters connection cable (TGLV) PTFE/glass fiber/reinforced with stainless steel), Operating temperature (-10...+200°C) | **L01 ... L99** |
| • Special version of connection cable, enter cable type and length in plain text | **Y91** |

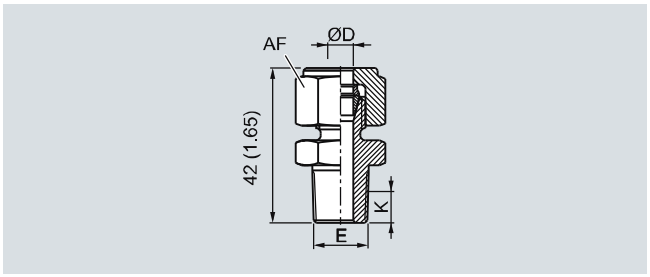
**Additional configurations on page after next page!**

**You find ordering examples on page 33!**

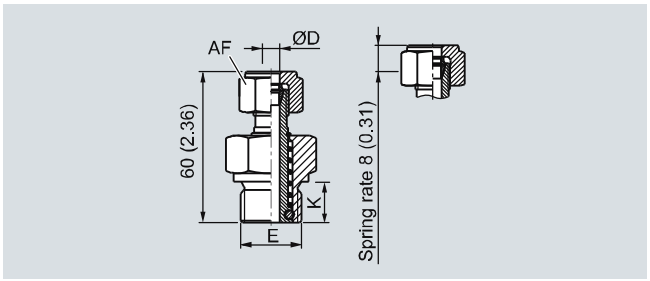
## Cable mineral-insulated



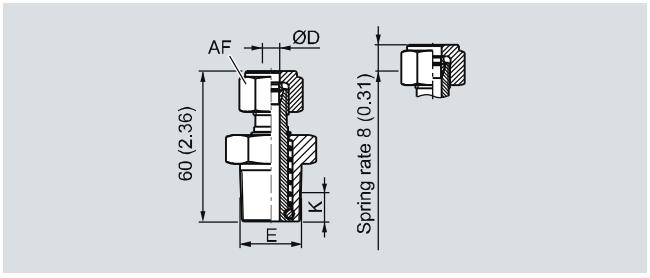

Compression fitting, dimensions in mm (inch)



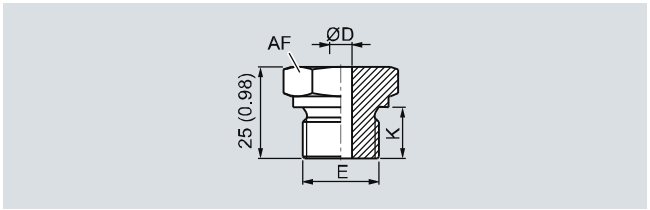

Compression fitting NPT, dimensions in mm (inch)



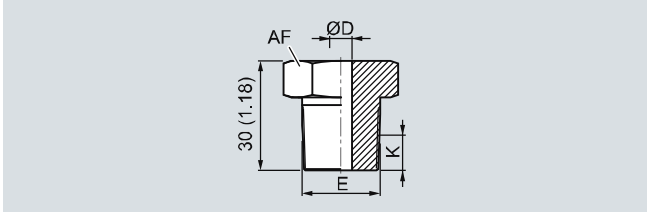

Spring-loaded compression fitting, dimensions in mm (inch)



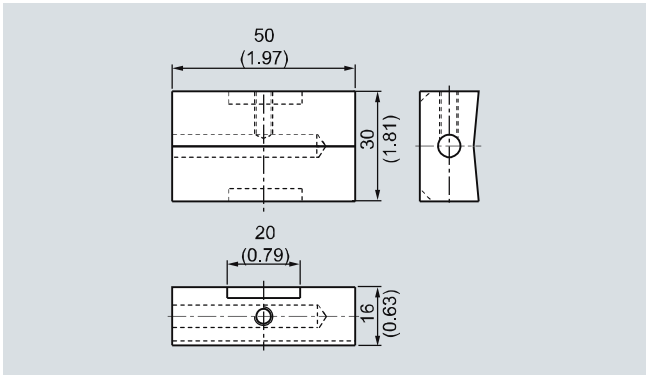

Spring-loaded compression fitting NPT, dimensions in mm (inch)




Soldering nipple, metric, dimensions in mm (inch)




Soldering nipple NPT, dimensions in mm (inch)




Surface connection piece, dimensions in mm (inch)

| Selection and Ordering data | Order code |
|---|---|
| **Process connection** | |
| • Soldering nipple G¼ ", enclosed | **A20** |
| • Soldering nipple G½ ", enclosed | **A21** |
| • Soldering nipple NPT½ ", enclosed | **A22** |
| • Soldering nipple M18x1.5, enclosed | **A23** |
| • Soldering nipple M8x1, enclosed | **A24** |
| • Compression fitting G¼ ", enclosed | **A30** |
| • Compression fitting G½ ", enclosed | **A31** |
| • Compression fitting NP ½ ", enclosed | **A32** |
| • Compression fitting M8x1, enclosed | **A34** |
| • Compression fitting, spring-loaded G½ ", enclosed | **A41** |
| • Compression fitting, spring-loaded NPT½ ", enclosed | **A42** |
| • Compression fitting, spring-loaded M18x1.5, enclosed | **A43** |
| • Compression fitting, spring-loaded, M8x1, enclosed | **A44** |
| • Surface connection piece, enclosed | **A50** |
| **Explosion protection (in preparation)** | |
| • Intrinsic safety "ia", "ic") | **E01** |
| **Certificates and approvals** | |
| • EN10204-3.1 Inspection certificate for materials coming into contact with media | **C12** |
| • EN10204-3.1 Inspection certificate visual: measurement and functional inspection | **C34** |
| • NACE Standard MR-01-75 compliance | **C50** |
| • ISO 9001 grease-free (cleaned for e.g. oxygen applications) | **C51** |
| *Further options* | |
| • Stainless steel TAG plate , Enter lettering in plain text | **Y15** |
| • Plant calibration per 1 point, enter temperature in plain text, Attention: For devices with built-in head transmitters, select test points within the set measurement range | **Y33** |
| Special versions | |
| Special version, enter in plain text | **Y99** |

**You find ordering examples on page 33!**