

# Sensors for Conductivity Measurement

Chem



## SE 600 Conductivity Sensor

**4-electrode sensor for high-pressure and high-temperature applications;  
large measuring range from pure water up to high conductivities**

For special chemistry applications up to 210 °C and 25 bar. Universal measuring range from pure water to 600 mS/cm. With fixed cable and integrated temperature detector.

Process-wetted materials: stainless steel and PTFE; very compact design.

### Applications

Special chemical processes; condenser monitoring, also for heavily polluted, e.g. fibrous media, pulp production.

### Facts

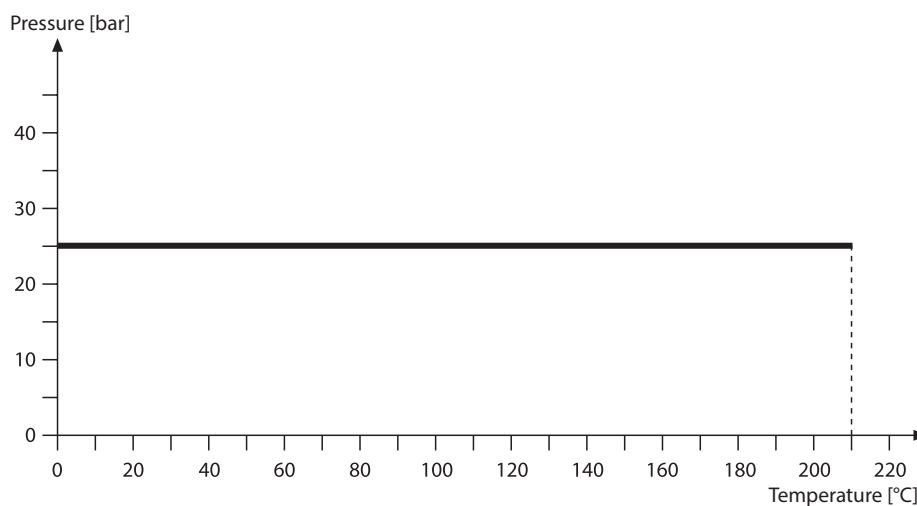
- Large measuring range due to 4-electrode technology
- Measurement at high temperatures and pressures
- High level of process safety due to durable materials and robust design
- Slim, ultracompact design (25 mm diameter)

### Specifications

|                               |                                                                                   |
|-------------------------------|-----------------------------------------------------------------------------------|
| Cell constant <sup>*)</sup> : | 0.14 cm ... 0.38 cm (exact value printed on rating plate)                         |
| Measuring range:              | approx. 0.5 µS/cm ... 600 mS/cm                                                   |
| Material:                     | Body: PTFE / stainless steel AISI 316 L<br>Electrodes: stainless steel AISI 316 L |
| Temperature detector:         | Pt 1000 (IEC Class A)                                                             |
| Temperature:                  | max. 210 °C                                                                       |
| Pressure:                     | max. 25 bar                                                                       |
| Process connection:           | 1" weld nipple (see Accessories)                                                  |
| Cable:                        | Fixed cable, 5 m                                                                  |

<sup>\*)</sup> Observe instructions for use (field conditions)

### Pressure/Temperature Diagram



**Knick** 

### Product Range

SE 600 conductivity sensor

G 1"

Order No.

**SE 600**

### Accessories

Screw for ZU 0217

Weld nipple for ZU 0216

Gasket (spare part)

Coupling nut

Conductivity standard      KCl   0.1 mol/l   12.88 mS/cm   ± 1.5 %   250 ml

Calibration Certificate

Order No.

**ZU 0216**

**ZU 0217**

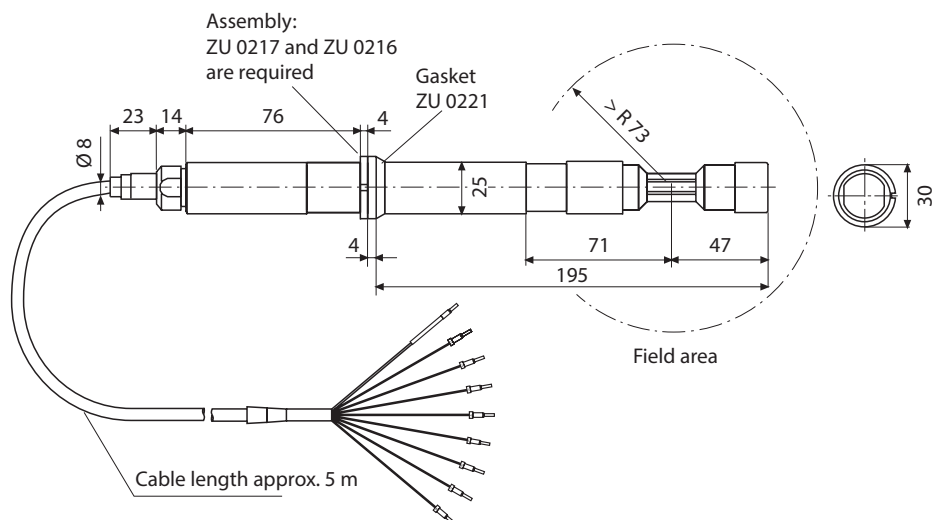
**ZU 0221**

**ZU 0222**

**ZU 0348**

**ZU 0320**

### Dimension Drawing



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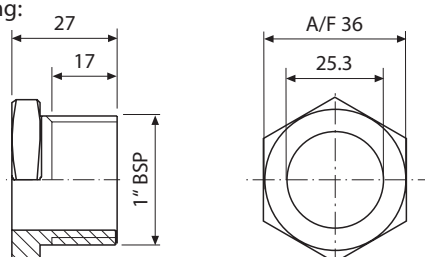
### Accessories / Specifications

ZU 0216 screw



Material: 316 L  
Process connection: 1" BSP for ZU 0217  
Temperature: Max. 210 °C  
Pressure: Max. 40 bar

Dimension drawing:

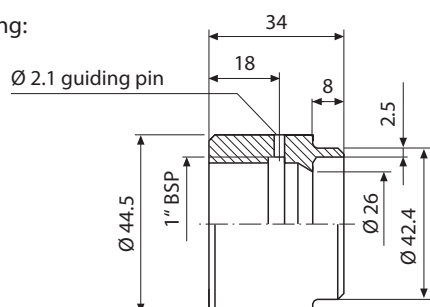


ZU 0217 weld nipple

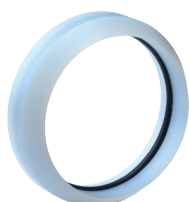


Material: AISI 316 L  
Process connection: Weld nipple  
Temperature: Max. 210 °C  
Pressure: Max. 40 bar

Dimension drawing:

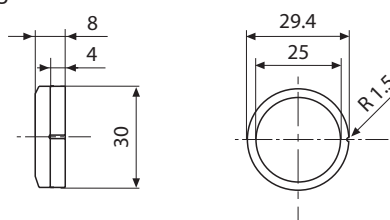


ZU 0221 gasket (spare part)



Material: PTFE

Dimension drawing:



All dimensions in mm

For up-to-date information, please visit [www.knick.de](http://www.knick.de)

# Knick

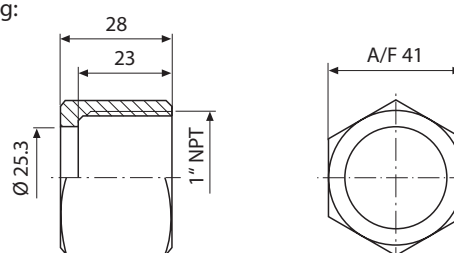
## Accessories / Specifications (continued)

Coupling nut for mounting  
on threaded coupling,  
ZU 0222

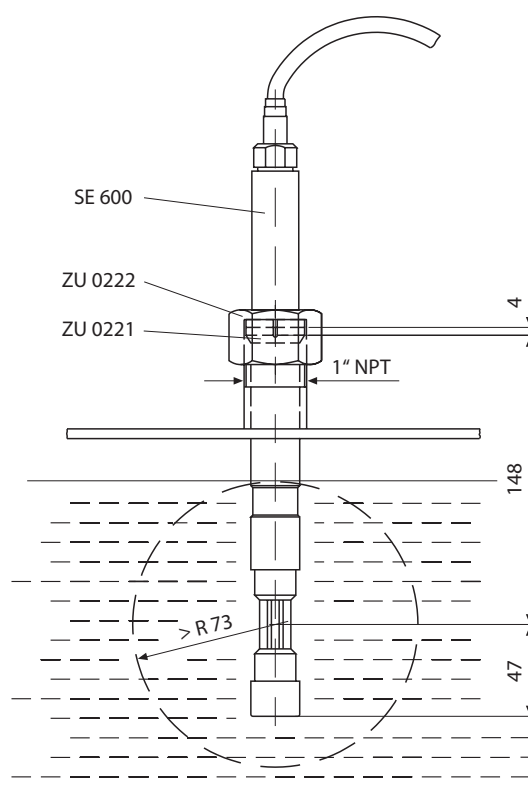
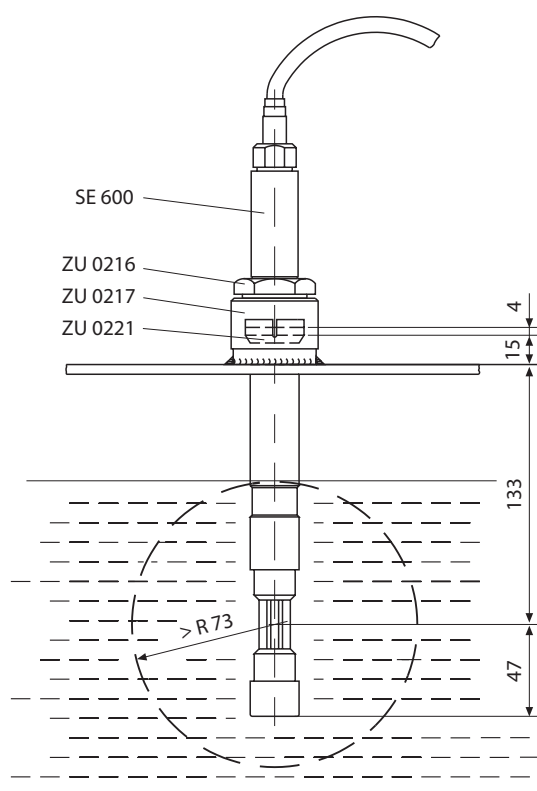


Material: AISI 316 L  
Dimensions: 1" NPT  
Temperature: Max. 210 °C  
Pressure: Max. 40 bar

Dimension drawing:



## Typical Assemblies



All dimensions in mm