Instrumentation for high-pressure applications
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Specific materials with high-yield characteristics and special manufacturing processes such as vacuum soldering ensure the high quality of these products, individually matched to your requirements. The process of producing LDPE (Low Density Polyethylene) or EVA (Ethylene Vinyl Acetate) is made at pressures of approx. 3,000 bar, where the temperature curve in the high-pressure tubular and autoclave reactors is an important process variable.

Temperature measurement

Each high-pressure thermocouple is designed and manufactured in accordance with customer requirements. Through pressure testing up to 6,000 bar, we ensure the high demands on safety and reliability.

Available tests and certificates

- 2.2 test report
- 3.1 inspection certificate
- 3.1 material certificate
- 3.2 material certificate
- DKD/DAkkS calibration certificate
- Climatic tests
- Shock and vibration tests
- Response time tests
- Pressure cycle tests
- Pressure strength and burst pressure tests
- IP protection tests
- EMC tests
- Dye penetrant testing
- X-ray testing of components
Pressure measurement

The model IS-3 pressure sensor is available with measuring ranges up to 6,000 bar. A wide range of process connections are available.

- Fast response time
- High shock and vibration resistance
- Global approvals for hazardous areas

Calibration up to 10,000 bar

To meet maintenance requirements, a hydraulic comparison pump can be used to generate high pressures and a digital gauge can be used as a reference. Thus high-pressure intrinsically safe pressure transmitters can be calibrated easily in a workshop.

The digital pressure gauge can be utilised for on-site calibration, comparison measurements or for data logging up to 10,000 bar.

Level measurement

Magnetic bypass level indicators allow for clear local indication as well as remote transmission of fluid levels. Each unit is precisely engineered to the fluidic properties of the process media.

Typical applications include level measurement of lubricating oil.
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