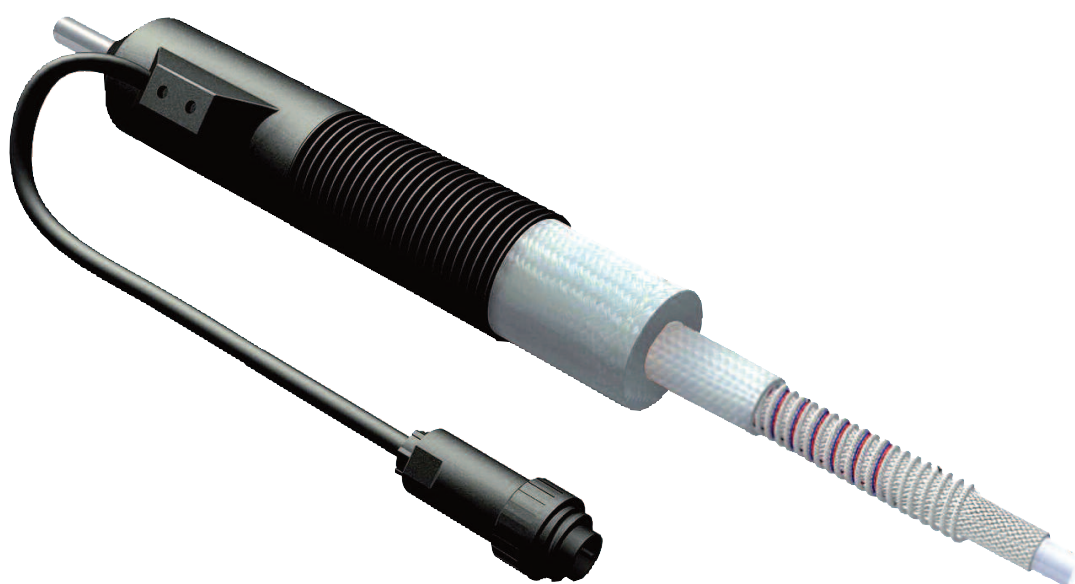




JH3F & JH3FR Heated Sample Lines with PA-Corrugated Hose



Gas Sampling
Probes

Heated Sample Lines

Sample Gas
Coolers

Condensate
Treatment

Accessories

Gas Conditioning
Systems

Sample Gas
Converters

APPLICATION

- Extractive gas analysis
- Emission and process monitoring
- Transport of sample gas from sample point to analysis system
- To stay safely above the acid dew point
- Protection against measured value falsification and frost
- Indoor and outdoor use

BENEFITS

- No condensate formation, no freezing
- Robust external protection
- Excellent insulation
- Optimal heat deployment
- Customer-specific executions
- Easy exchange of the inner core (JH3FR)
- Long lifetime
- Kink protection

FEATURES

- Regulated heatable to max. 200°C
- External protection corrugated jacket of Polyamide
- Heat insulation with thermo fleece
- Ready for use
- Interchangeable inner core for JH3FR
- Second core for e.g. calibration gas as option
- Inner core reinforced with stainless steel braid

TECHNICAL DATA

| Model | JH3F | JH3FR |
|----------------------------|--|-----------------|
| Description | regulated heated sample line | |
| External protection jacket | corrugated polyamide jacket, black | |
| Inner core | fixed | interchangeable |
| Area of application | mobile and fixed installation indoor and outdoor | |

Operation data

| | |
|-----------------------|----------------|
| Operating temperature | max. 200°C |
| Operating pressure | max. 10 bara |
| Ambient temperature* | -30°C to +60°C |

Construction

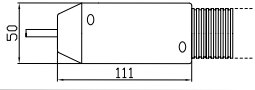
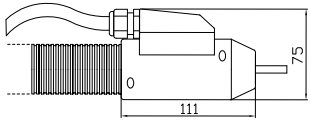

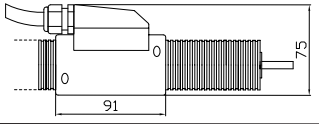
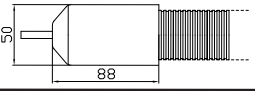
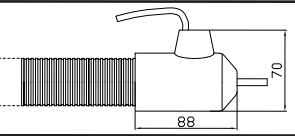
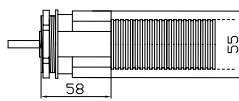
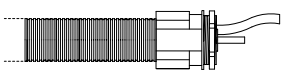
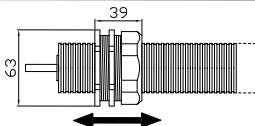
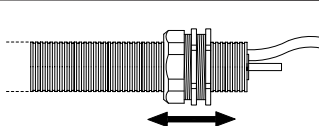
| | | |
|-------------------------------------|--|--|
| Material inner core | PTFE, optional PFA | |
| Heating element | design according to DIN moisture proof with protection braid | |
| Thermal insulation | thermo fleece | |
| End configuration | PA hard caps, silicone caps, PG 36 or PG 42 (see table below) | |
| Maximum sample line length* | 50 m | |
| Diameter core / sample line outside | DN 4/6 mm / 42 mm DN 6/8 mm / 42 mm | |
| Minimum bending radius JH3F / JH3FR | DN 4/6 mm: 100 mm / 150 mm DN 6/8 mm: 150 mm / 200 mm | |
| Dimensions of silicone caps | DN 4/6: L = 88 mm, Ø 50 mm (H), Ø 70 mm (C) DN 6/8: L = 88 mm, Ø 50 mm (H), Ø 70 mm (C) | |
| Dimensions of PA hard caps | DN4/6: L = 111, Ø 50 (F), Ø 75 (A/B) DN6/8: L = 111, Ø 50 (F), Ø 75 (A/B) | DN4/6: L = 111, Ø 50 (F), Ø 75 (A/B) DN6/8: L = 120, Ø 54 (F), Ø 79 (A/B) |
| Protection class | IP 44 (EN60529) | |

Electrics

| | |
|-------------------|---|
| Power supply | 230 VAC 50/60 Hz or 115 VAC 50/60 Hz |
| Power consumption | 100 W/m |
| Connection cable | 3 m |
| Connection plug | 7-pole plug for connection of temperature controller HT-43 and HT-55 HANQ8-plug for connection of temperature controller HT-41 |

* To achieve extended length **JCT** offers heated lines with reduced power (W/m) or with a second heating circuit. For lower ambient temperatures versions with higher performance are available. Please consult **JCT** sales team.

End configuration of sample line

| Without electrical connection (side 2) | | With electrical connection (side 1) | | Type | JH3F | JH3FR |
|--|---|---|---|--------------------|------|-------|
| F |  |  | A | Hard cap | p | p |
| | | | | | RSL | |
| G |  |  | B | Hard cap (stepped) | p | p |
| | | | | | RSL | |
| H |  |  | C | Silicone cap | p | p |
| | | | | | RSL | |
| I |  |  | D | PG36 | p | p |
| | | | | | RSL | |
| J |  |  | E | movable PG42 | p | p |
| | | | | | RSL | |

JH3F with non interchangeable inner core JH3FR with interchangeable core
 p = PTFE core, 200 mm protruded RSL = Stainless steel stubs, 30 mm long

