# JH3F & JH3FR Heated Sample Lines with PA-Corrugated Hose





## **Heated Sample Lines**

Sample Gas Coolers

**Gas Sampling** 

Probes

**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**

JH3F

JH3FR

DN4/6: L = 111, Ø 50 (F), Ø 75 (A/B)

DN6/8: L = 120, Ø 54 (F), Ø 79 (A/B)

Description	regulated heated sample line								
External protection jacket	corrugated polyamide jacket, black								
Inner core	fixed	interchangeable							
Area of application	mobile and fixed installa	allation 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, op	tional PFA							
Heating element	design according to DIN mois	noisture proof with protection braid							
Thermal insulation	thermo	thermo fleece							
End configuration	PA hard caps, silicone caps, PC	caps, PG 36 or PG 42 (see table below)							
Maximum sample line length*	50	) m							
Diameter core / sample line outside		m / 42 mm m / 42 mm							
Minimum bending radius JH3F / JH3FR		0 mm / 150 mm 0 mm / 200 mm							
Dimensions of silicone caps		L = 88 mm, Ø 50 mm (H), Ø 70 mm (C) L = 88 mm, Ø 50 mm (H), Ø 70 mm (C)							

#### **Electrics**

DN4/6: L = 111, Ø 50 (F), Ø 75 (A/B)

DN6/8: L = 111, Ø 50 (F), Ø 75 (A/B)

IP 44 (EN60529)

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

<sup>\*</sup> 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**

Dimensions of PA hard caps

Protection class

Model

With	out electrical connection (side 2)	ectrical connection (side 2) With electrical connection (side 1)				JH3FR
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Н			Ciliaana aan	р	_	
	05	88	С	Silicone cap	RSL	р
	58	D	PG36	р	2	
<u>'</u>			F 030	RSL	р	
J			Е	movable PG42	р	n
				IIIOVADIE F G42	RSL	р

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

# **ORDER CODE**

#### JH3F

Temperature sensor PT100*	2										
Temperature sensor PT100* + limiter (thermo switch in connection housing)	3										
Temperature sensor NiCr-Ni type K*	4										
2 x Temperature sensor PT100*	9										
Outer protection corrugated PA jacket		3									
Core 200 mm protruded			0								
Stainless steel stubs 30 mm long			6								
Line length without protrusion in dm (e.g. 10 m = 100; 4,5 m = 045)				XXX							
Diameter DN4/6 mm					4						
Diameter DN6/8 mm					6						
PTFE core						PTFE					
PFA core						PFA					
Power supply 230 VAC / 50/60 Hz							2				
Power supply 115 VAC / 50/60 Hz							1				
End configuration side 2 type F (without electrical connection)								F			
End configuration side 2 type G (without electrical connection)								G			
End configuration side 2 type H (without electrical connection)								Н			
End configuration side 2 type I (without electrical connection)								1			
End configuration side 2 type J (without electrical connection)								J			
End configuration side 1 type A (with electrical connection)									Α		
End configuration side 1 type B (with electrical connection)									В		
End configuration side 1 type C (with electrical connection)									С		
End configuration side 1 type D (with electrical connection)									D		
End configuration side 1 type E (with electrical connection)									E		
Without calibration core										0	
Calibration core DN2/3 mm										2	
Calibration core DN4/6 mm										4	
Without strain relief											0
With strain relief**											Q16
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Order code		3									

<sup>\*</sup> Temperature sensor position at line length up to 10 m = 0,3 m from electrical connection, at line length > 10 m = 3 m from electrical connection, others on request

Suitable temperature controllers series HT and JPXR4 can be found in this chapter (2)

The standard external (outer) jacket is made of corrugated PA6. For harsh ambient conditions we strongly recommend to use PA12 outer protection. The PA12 material has a higher resistance against UV radiation, influence from acid rain and high temperatures.

Please consult **JCT** sales team.

<sup>\*\*</sup> For sample line length > 10 m and vertical installation a strain relief is recommended

# **ORDER CODE**

## JH3FR

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Power supply 115 VAC / 50/60 Hz							1				
End configuration side 2 type F (without electrical connection)								F			
End configuration side 2 type G (without electrical connection)								G			
End configuration side 2 type H (without electrical connection)								Н			
End configuration side 2 type I (without electrical connection)								I			
End configuration side 2 type J (without electrical connection)								J			
End configuration side 1 type A (with electrical connection)									Α		
End configuration side 1 type B (with electrical connection)									В		
End configuration side 1 type C (with electrical connection)									С		
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Without strain relief	Ш										0
With strain relief**											Q16
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Order code		3	0								

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