



## Upgrade Options for JES-301



### Gas Sampling Probes

Heated Sample  
Lines

Sample Gas  
Coolers

Condensate  
Treatment

Accessories

Gas Conditioning  
Systems





Sample Gas  
Converters

**The JCT gas sampling probes can be customized for special applications with various upgrade options:**

- Shut-off ball valves for the sample gas outlet: operated pneumatically, electrically or manually
- Process shut-off valves: operated pneumatically, electrically or manually
- Air accumulators for back purging in different sizes
- Heated air accumulators for back purging in different sizes
- Dilution units
- Various connectors
- Additional heater elements for low ambient temperatures
- Additional ATEX certified components

## ORDER CODE





### Upgrade options for gas sampling probes of series

Part No.	Description	Upgrade options for gas sampling probes of series					
		JES-301	JES-301V	JES-301E1 	JES-301E1SV 	JES-301E1LOS 	JES-301E1OSV 
35.90018	Ceramic <b>filter element</b> , surface coated, 0,2 µm	x	x	x	x	x	x
35.90113	Glasfibre filter element	x	x	x	x	x	x
35.90106	PTFE filter element	x	x	x	x	x	x
35.90102	Stainless steel filter element	x	x	x	x	x	x
35.90107	Glass wool filter element, incl. gaskets	x	x	x	x	x	x
35.90108	Glass wool filter element, incl. gaskets, high temperature version	x	x				
35.00655	<b>Dilution</b> unit JES-DU	x	x	x	x	x	x
35.00673	Control panel for dilution unit JES-DCP	x	x	x	x	x	x
35.00658A	<b>Back purge</b> control valve 24 VDC for models with back purge port	x	x				
35.00658B	Back purge control valve 115 VAC for models with back purge port	x	x				
35.00658C	Back purge control valve 230 VAC for models with back purge port	x	x				
35.90092	Back purge reduction valve JBPRV in sample gas outlet for models with back purge port, 6 mm pipe (see also separate product data sheet)	x	x	x	x	x	x
35.90099	Back purge reduction valve JBPRV in sample gas outlet for models with back purge port, 8 mm pipe (see also separate product data sheet)	x	x	x	x	x	x
35.90111	Back purge reduction valve JBPRV in sample gas outlet for models with back purge port, 1/4" mm pipe (see also separate product data sheet)	x	x	x	x	x	x
35.00660	Pneumatic actuator for <b>process shut-off valve</b>		x				
35.00670A	Solenoid pilot valve kit 24 VDC for pneumatic actuator with valve plug, form B	x	x				
35.00670B	Solenoid pilot valve kit 115 VAC for pneumatic actuator with valve plug, form B	x	x				
35.00670C	Solenoid pilot valve kit 230 VAC for pneumatic actuator with valve plug, form B	x	x				
35.00661	Electric actuator for process shut-off valve		x				
35.00666A	2 l <b>air accumulator</b> for back purge with control valve 24 VDC	x	x				
35.00666B	2 l air accumulator for back purge with control valve 115 VAC	x	x				
35.00666C	2 l air accumulator for back purge with control valve 230 VAC	x	x				
35.00662A	5 l air accumulator for back purge with control valve 24 VDC	x	x				
35.00662B	5 l air accumulator for back purge with control valve 115 VAC	x	x				
35.00662C	5 l air accumulator for back purge with control valve 230 VAC	x	x				
35.00669A	2 l heated air accumulator for back purge with heater 230 VAC and control valve 24 VDC	x	x				
35.00669B	2 l heated air accumulator for back purge with heater 230 VAC and control valve 115 VAC	x	x				
35.00669C	2 l heated air accumulator for back purge with heater 230 VAC and control valve 230 VAC	x	x				
35.00663A	5 l heated air accumulator for back purge with heater 230 VAC and control valve 24 VDC	x	x				
35.00663B	5 l heated air accumulator for back purge with heater 230 VAC and control valve 115 VAC	x	x				
35.00663C	5 l heated air accumulator for back purge with heater 230 VAC and control valve 230 VAC	x	x				
35.00672	<b>High temperature</b> version for DN 65 flange*	x					
35.00675	High temperature version for DN 65 flange for models with back purge <b>or</b> calibration port*	x					
35.00676	High temperature version for DN 65 flange for models with back purge <b>and</b> calibration port*	x					
35.00677	High temperature version for ANSI flange for models*	x					
35.00678	High temperature version for ANSI flange for models with back purge <b>or</b> calibration port*	x					
35.00679	High temperature version for ANSI flange for models with back purge <b>and</b> calibration port*	x					
35.00681	Digital <b>temperature display</b> for temperature controller	x	x				

\* ... for sample gas temperatures up to 315 °C

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### Upgrade options for gas sampling probes of series

Part No.	Description	Upgrade options for gas sampling probes of series					
		JES-301	JES-301V	JES-301E1 	JES-301E1SV 	JES-301E1OS 	JES-301E1OSV 
35.00650	One additional <b>ATEX heater element</b> temperature class T3 (< 200 °C) for ambient temperature down to -20 °C			X	X		
35.00651	Two additional ATEX heater elements temperature class T3 (< 200 °C) for ambient temperature down to -30 °C			X	X		
35.00671	ATEX heater element temperature class T4 (<135 °C); replacement for standard T3 heater element			X	X		
35.00687	One additional ATEX heater element for temperature class T4 (< 135 °C) for ambient temperature down to -20 °C (only in combination 35.00671)			X	X		
35.00688	Two additional ATEX heater elements temperature class T4 (< 135 °C) for ambient temperature down to -30 °C (only in combination 35.00671)			X	X		
35.00680	PT100 <b>temperature sensor</b> instead of low temperature contact (replacement)					X	X
35.00654A	<b>Back purge ATEX</b> control valve 24 VAC/VDC (UC) for models with back purge port			X	X	X	X
35.00654B	Back purge ATEX control valve 115 VAC/VDC (UC) for models with back purge port			X	X	X	X
35.00654C	Back purge ATEX control valve 230 VAC/VDC (UC) for models with back purge port			X	X	X	X
35.00664	Pneumatic actuator for <b>process shut-off ball valve</b> for ATEX Zone 22				X		X
35.00665A	ATEX solenoid pilot valve kit 24 VDC for pneumatic actuator with valve plug, form A			X	X		X
35.00665B	ATEX solenoid pilot valve kit 115 VAC for pneumatic actuator with valve plug, form A			X	X		X
35.00665C	ATEX solenoid pilot valve kit 230 VAC for pneumatic actuator with valve plug, form A			X	X		X
35.00667A	2 l <b>air accumulator</b> for back purge with <b>ATEX</b> control valve 24 VAC/VDC (UC)			X	X	X	X
35.00667B	2 l air accumulator for back purge with ATEX control valve 115 VAC/VDC (UC)			X	X	X	X
35.00667C	2 l air accumulator for back purge with ATEX control valve 230 VAC/VDC (UC)			X	X	X	X
35.00652A	5 l air accumulator for back purge with ATEX control valve 24 VAC/VDC (UC)			X	X	X	X
35.00652B	5 l air accumulator for back purge with ATEX control valve 115 VAC/VDC (UC)			X	X	X	X
35.00652C	5 l air accumulator for back purge with ATEX control valve 230 VAC/VDC (UC)			X	X	X	X
35.00653A	5 l heated air accumulator for back purge with ATEX heater and control valve 24 VAC/VDC (UC) (separate mount)			X	X	X	X
35.00653B	5 l heated air accumulator for back purge with ATEX heater and control valve 115 VAC/VDC (UC) (separate mount)			X	X	X	X
35.00653C	5 l heated air accumulator for back purge with ATEX heater and control valve 230 VAC/VDC (UC) (separate mount)			X	X	X	X
35.00674	<b>GRP-ATEX instrument enclosure</b> for ambient temperatures down to -40 °C			X	X	X	X
35.00684	<b>Connection hose fitting</b> M 63 x 1,5 mm for sample gas outlet, clamping range 41 to 54 mm	X	X	X	X	X	X
35.00685	<b>Mounting hole</b> for mounting clamp diameter 58...61 mm	X	X	X	X	X	X
35.00686	<b>Connection ports</b> imperial system (Calibration and / or back purge pipe stubs)	X	X	X	X	X	X

Note: some configurations are not recommendable or applicable. Please contact the **JCT** sales team for further information.

## SERIES OF PRODUCT FAMILY JES-301

### Series JES-301



Heated gas sampling probe, basic model optionally:

- Back purge port
- Calibration port
- Temperature controller

### Series JES-301V



Heated gas sampling probe with process shut-off ball valve optionally:

- Back purge port
- Calibration port

### Series JES-301E1

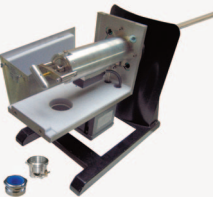


Explosion proof gas sampling probe with self limited heating optionally:

- Back purge port
- Calibration port



### Series JES-301E1SV



Explosion proof gas sampling probe with self limited heating and process shut-off valve optionally:

- Back purge port
- Calibration port



### Series JES-301E10S



Explosion proof gas sampling probe with self limited heating and low temperature contact optionally:

- Back purge port
- Calibration port



### Series JES-301E10SV



Explosion proof gas sampling probe with self limited heating, process shut-off valve and low temperature contact optionally:

- Back purge port
- Calibration port



Gas Sampling Probes



Heated Sample Lines



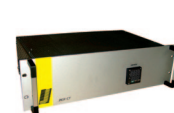
Sample Gas Coolers



Gas Conditioning Systems



NOx Converter



and solutions for

