## **JES-360 Gas Sampling Probe** for Pre-Filter Back Flush





- · Representative continuous gas sampling in processes containing high dust and humidity
- · Extractive gas analysis

**APPLICATION** 

- · Emission (CEMS) and process monitoring
- · Removal of dust from the sample gas

#### **BENEFITS**

- · Cost-optimized solutions
- · No condensation or chemical reactions of sample gas
- · Convenient filter replacement
- · Low maintenance
- · Safe unattended operation
- · Easy start-up
- Even for high dust concentrations
- Reliable protection of the analyzer system
- · Long filter lifetime

#### **FEATURES**

- Modular design for custom-tailored applications
- Highly efficient filter cleaning
- Homogeneous heating without cold spots
- Large active filter surface
- Filtration from outside to inside
- Filter element change without tools
- Different material of filter elements
- Electronic temperature controller including over temperature protection
- Temperature status contact
- Weather protection housing
- Various options and upgrades
- Wide range of accessories
- Integrated back flush / back purge controller (option)





#### **Gas Sampling Probes**

**Heated Sample** Lines

Sample Gas Coolers

**Condensate Treatment** 

**Accessories** 

**Gas Conditioning** Systems

> Sample Gas **Converters**

### **TECHNICAL DATA**

Model	JES-360
MOUCI	JE3-000

Description	stationary gas sampling probe for pre-filter back flush					
	Operation					
Temperature	180 °C (ex works), adjustable 5 °C to 200 °C					
Status limiter set values	-30 K /+20 K fixed to set point					
Operating pressure	max. 2 bara (max. 7 bara optional)					
Mounting position	5° to 15° incline (recommended), torsion angle max. 45°					
Heating-up time	<1 h					
Ambient temperature	for start-up −20 °C to 60 °C for continuous operation −30 °C to 60 °C					

#### Construction

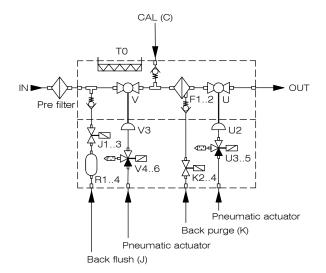
Dimensions over all (W x H x D)	375 x 418 x 449 mm
Dimensions connection box (W x H x D)	120 x 160 x 90 mm
Filter element	2 μm ceramic or 0,2 μm ceramic surface coated
Active filter surface	170 cm <sup>2</sup>
Mounting flange	DN 65, PN6; form A according to EN 1092-1; SS316L or 2" ANSI 150 lbs; according to ASME B16.5
Sample gas inlet	G 3/4" female thread
Sample gas outlet	1/8" NPT female thread
Calibration gas connection (feature C)	pipe 6 mm, SS316
Back purge connection (feature K)	pipe 6 mm, SS316
Connection pre-filter back flush (feature J)	NPT 3/8" female thread
Gas wetted materials	SS316L, ceramic, Viton®
Protection class	connection box IP65, probe IP43
Weight	approx. 15 kg, depending on options
Weather protection housing	SS304, thermal insulated, colour stainless steel natural
Approvals / Signs	CE

#### **Electrics**

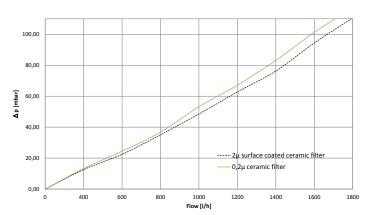
Power supply	230 VAC 50 Hz or 115 VAC 60 Hz
Power consumption	approx. 805 VA
Temperature controller / Sensor	electronic / PT100 (IEC-751)
Electrical connection	spring type terminals, clamping range 0,08 to 2,5 mm <sup>2</sup>
Switching capacity status contact (volt free)	230 VAC / 2 A, min. 5 VDC / 5 mA

### **FLOW CHART**

This flow chart inlcudes all possible variants

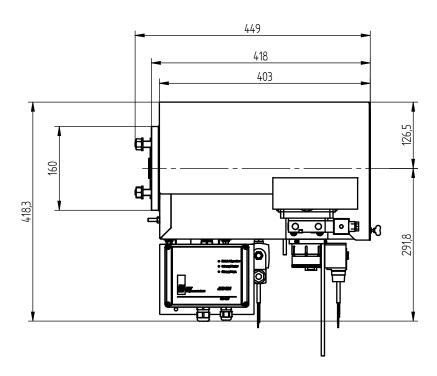


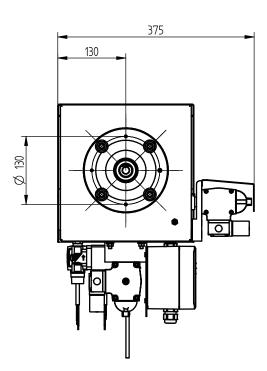
# Pressure characteristics in dependence of the gas flow (for new filter element and 20 $^{\circ}\text{C})$



#### **DIMENSIONS**

Dimensions in mn





### **ORDER CODE**

**Basic model** pre-filter back flush with non-return valve (not for option V0)

includes weather protection housing

temperature controller 180 °C (adjustable)

#### Available Features

Flange	DN65/PN6 FF	Z1										
	2" ANSI RF	<b>Z</b> 2										
filter	2 µm ceramic	The second	F1									
	0,2 µm ceramic surface coated		F2									
Power supply	230 VAC 50/60 Hz with temperature controller			X1								
	115 VAC 50/60 Hz with temperature controller			X2								
	230 VAC 50/60 Hz with junction box			Х3								
	115 VAC 50/60 Hz with junction box			X4								
rocess shut-off ball valve	without shut-off ball valve and without pre-filter back flush				V0							
	without shut-off ball valve				V1							
	with manual operation				V2							
	with pneumatic actuator				V3							
	with pneumatic actuator and pilot valve 24 VDC				V4							
	with pneumatic actuator and pilot valve 115 VAC				V5							
	with pneumatic actuator and pilot valve 230 VAC				V6							
	with electric actuator 230 VAC				V7							
Back purge valve / Port sample probe filter	without					KO						
	back purge port with non-return valve					K1						
	back purge port with non-return valve 24 VDC					K2						
	back purge port with non-return valve 115 VAC 50/60 Hz					K3						
	back purge port with non-return valve 230 VAC 50/60 Hz					K4						
Pre-filter back flush valve	without	6	П				J0					
	24 VDC						J1					
	115 VAC 50/60 Hz						J2					
	230 VAC 50/60 Hz						J3					
solation ball valve probe outlet	without							U0				
·	with manual operation							U1				
	with pneumatic actuator							U2				
	with pneumatic actuator and pilot valve 24 VDC							U3				
	with pneumatic actuator and pilot valve 115 VAC							U4				
	with pneumatic actuator and pilot valve 230 VAC							U5				
	with electric actuator 230 VAC							U6				
ir accumulator	without						Т		R0			
	air accumulator 2 l								R1			
	air accumulator 5 l						т		R2			
	air accumulator heated 2 l								R3			
	air accumulator heated 5 l								R4			
Mounting hole for mounting clamp	for heated sample line 35-50 mm									M1		
	for heated sample line 58-61 mm									M2		
Connection ports	inch									-	A1	
	metric										A2	
Additional Options											Ī	
Others	calibration port with non-return valve											C
	·											K
	with back flush / back purge controller											

Scope of delivery: sampling probe, mounting material, flange gasket, gasket for sampling pipe, operating manual

**JCT** Analysentechnik GmbH offers a wide range of accessories. Please refer to seperate data sheets for further information.

