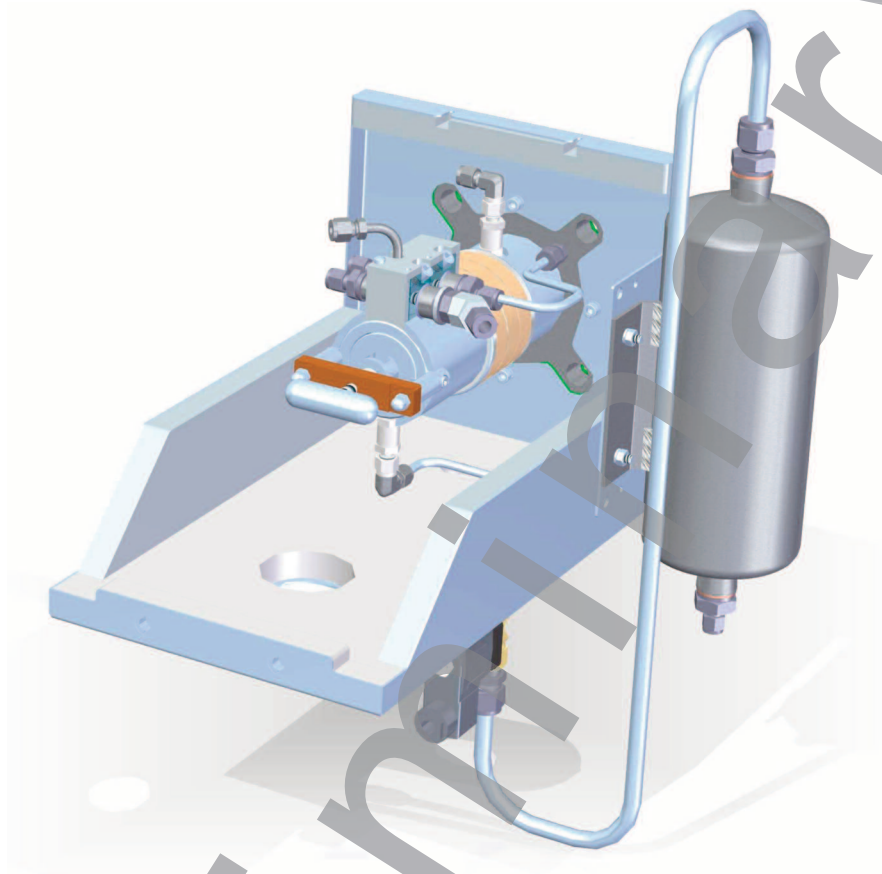




JCT
Analysentechnik

JES-380

Gas sampling probe for Sample Gas Dilution



Gas Sampling Probes

Heated Sample
Lines

Sample Gas
Coolers

Condensate
Treatment

Accessories

Gas Conditioning
Systems

Sample Gas
Converters

APPLICATION

- Representative continuous gas sampling in processes containing high dust and humidity
- Extractive gas analysis
- Emission (CEMS) and process monitoring
- Removal of dust from the sample gas
- Dilution of sample gas

BENEFITS

- Cost-optimized solutions
- No condensation or chemical reactions of sample gas
- Continuous dilution of aggressive sample gas
- Convenient filter replacement
- Low maintenance
- Safe unattended operation
- Easy start-up
- Reliable protection of the analyzer system
- Long filter lifetime

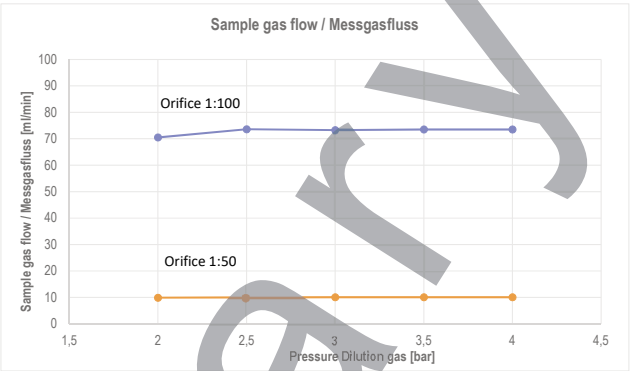
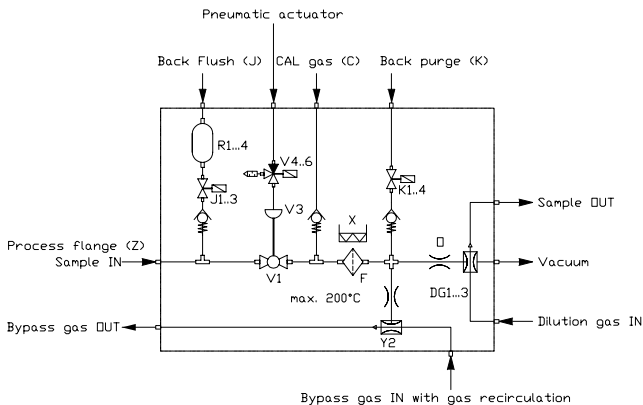
FEATURES

- Different dilution ratio available
- Different consumptions of dilution gas available
- Modular design for custom-tailored applications
- Homogeneous heating without cold spots
- Large active filter surface
- Filtration from outside to inside
- Filter element change without tools
- Different material of filter elements
- Optional over temperature sensor
- Temperature status contact
- Weather protection housing
- Various options and upgrades
- Wide range of accessories
- Integrated back purge control unit (option)

Model	JES-380
Description	stationary gas sampling probe for sample gas dilution
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	approx. 2 h
Ambient temperature	for start-up −20 °C to 60 °C for continuous operation −30 °C to 60 °C
Dilution unit	
Dilution ratio	1:500 / 1:200 / 1:100 / 1:50 / 1:25 / 1:12,5 / 1:10
Operation pressure	4 to 5 bara
Consumption of dilution gas	500 l/h / 1000 l/h / 3000 l/h
Suction sample gas	4 to 40 l/h at 4 bara (depends on dilution ratio)
Admissible back pressure	< 50 mbar
Dilution gas	purified instrument air or inert gas (e.g. nitrogen 5.0)
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 ²
Mounting flange	DN 65, PN6; 2" ANSI 150 lbs; DN 80, PN 6; 3" ANSI 150 lbs
Sample gas inlet	DN65 & 2" flange G 3/4" female thread; 3" flange G1/2"
Sample gas outlet	3/8" female thread
Gas wetted materials	SS316L, ceramic, Viton®, Kalrez®, glass
Protection class	junction box IP65, probe IP43
Weight	approx. 17 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 ²
Status contact (volt free)	230 VAC / 2 A, min. 5 VDC / 5 mA

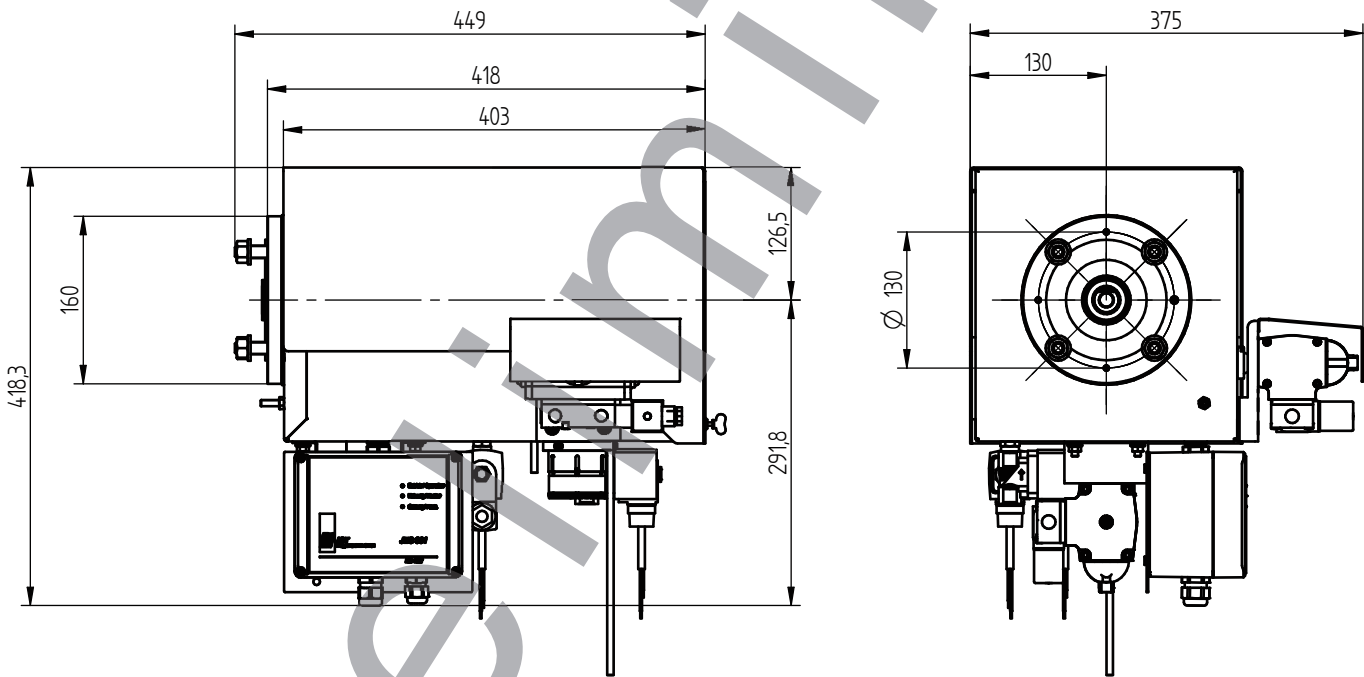
FLOW CHART

Performance diagram



DIMENSIONS

Dimensions in mm



DILUTION RATE AIR

Verdünnungsrate/ Dilutionrate										Dilution Gas
Verdünnungsgas	1:500	1:200	1:100	1:50	1:37,5	1:25	1:20	1:12,5	1:10	
500 l/h			OR1 / 010	OR2 / 015		OR3 / 020	OR4 / 025	OR5 / 030	OR6 / 035	500 l/h
1000 l/h		OR1 / 010	OR2 / 015	OR3 / 020	OR4 / 025	OR5 / 030	OR6 / 035	OR7 / 040	OR8 / 050	1000 l/h
3000 l/h	OR1 / 010	OR2 / 015	OR3 / 020	OR5 / 030	OR6 / 035	OR7 / 040	OR8 / 050			3000 l/h
Verdünnungsdüse/ Dilution Orifice										

