Sample Gas Conditioning You Can Trust





JES-380

Gas Sampling Probe for Sample Gas Dilution



APPLICATION

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

BENEFITS

- · Cost-optimized solutions
- No condensation or chemical reactions of sample gas
- Continous dilution of agressive 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 and 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
- · Different material of filter elements
- · Optional over temperature sensor
- · Temperature status contact
- · Weather protection housing
- Integrated back purge control unit (option)

















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TECHNICAL DATA

MODEL JES-380

OPERATION

Temperature (variant X)	180 °C (ex works), adjustable 5 °C to 200 °C					
Status limiter set values	-30 K /+20 K fixed to set point					
Mounting position	5° to 15° incline (recommended), torsion angle max. 45°					
Heating-up time	approx. 120 min					
Ambient temperature	for start-up -20 °C to 60 °C for continuous operation -30 °C to 60 °C					

DILUTION UNIT

Dilution ratio (feauture OR)	1:500 / 1:200 / 1:100 / 1:50 / 1:37,5 /1:25 / 1:12,5 / 1:10
Operation pressure	45 bara
Consumption of dilution gas (feauture DG)	500 l/h, 1000 l/h
Suction sample gas	4 to 40 l/h at 4 bara (depends on dilution ratio)
Admissible back pressure	< 50 mbara
Dilution gas	purified instrument air or inert gas (e.g. nitrogen 5.0), > 6 bara

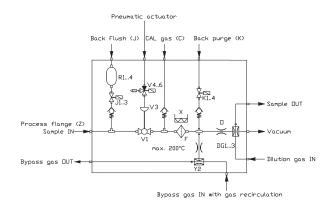
CONSTRUCTION

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Dimensions over all (W x H x D)	475 x 418 x 645 mm					
Dimensions connection box (W x H x D)	120 x 160 x 90 mm					
Filter element (feauture F)	2 µm ceramic or 0.2 µm ceramic surface coated					
Active filter surface	170 cm ²					
Mounting flange standards (feauture Z)	DN 65, PN 6; DN 80 PN 6; Form A according to EN 1092-1 2" ANSI 150 lbs, 3" ANSI 150 lbs according to ASME B16.5					
Sample gas inlet	DN65 & 2" flange: G 3/4" female thread; DN80 flange: G 1/2"; 3" flange: NPT 1/2"					
Sample gas outlet	DN65 & DN80 flange: 8 mm tube fitting; 2" & 3" flange: 3/8" tube fitting					
Back purge connection (feauture B)	6 mm or 1/4" fitting					
Back Flush connection (feauture J)	12 mm fitting					
Air accumulator	unheated or thermostatic regulation 100 °C					
Gas wetted materials	SS316L, ceramic, Viton®, 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					

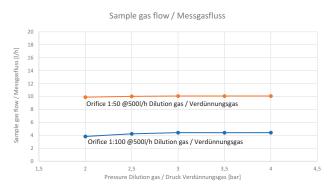
ELECTRICS

Power supply	230 VAC 50 Hz or 115 VAC 60 Hz
Power consumption	approx. 805 VA
Temperature controller / sensor	electronic / Pt100 RTD (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



Drawing shows all possible options, selection according order code.

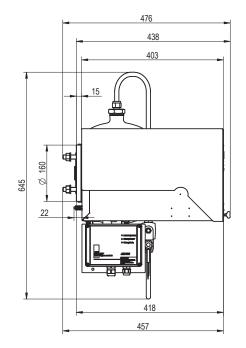
DILUTION GAS

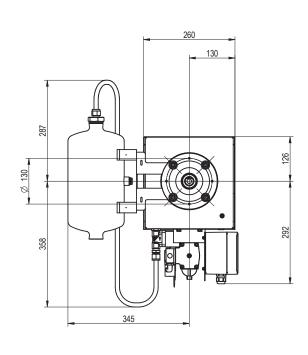
Dilutionrate

Dilutioniate									
Dilution gas	1:500	1:200	1:100	1:50	1:37.5	1:25	1:20	1:12.5	1:10
Dilution orifi	ce								
DG1 500l/h	-	-	OR1/010	OR2/015	-	OR3/020	OR4/025	OR5/030	OR6/035
DG2 1,000l/h	-	OR1/010	OR2/015	OR3/020	OR4/025	OR5/030	OR6/035	OR7/040	OR8/050

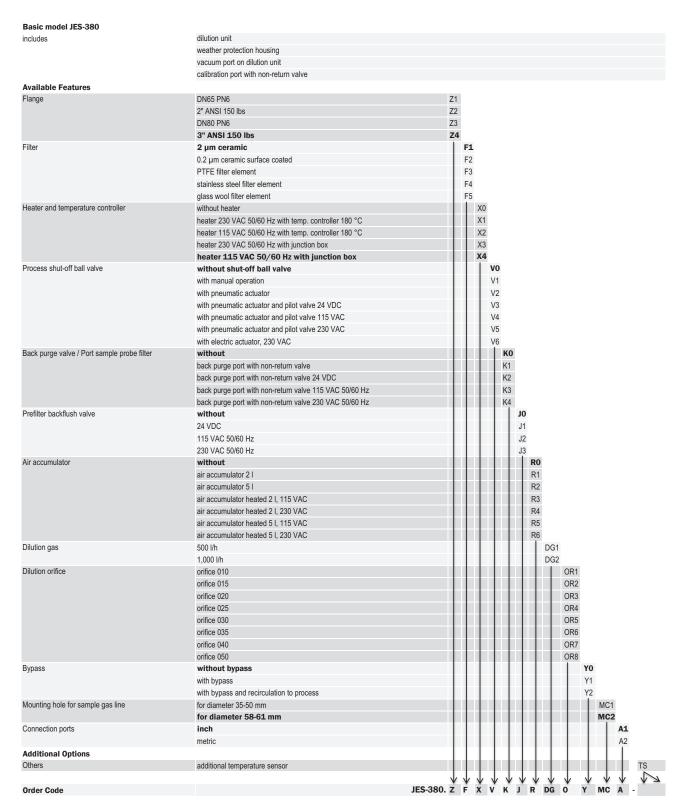
DIMENSIONS

dimensions in mm





ORDER CODE



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

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



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