JCT Gas Sampling

JDM
Flowmeter

APPLICATION
- For extractive gas analysis
- For emission and process monitoring
- For adjustment and monitoring of sample gas flow
- For adjustment and monitoring of bypass and calibration gas flow
- Integration into gas analysis systems

BENEFITS
- Reliable and precise volume flow indication
- No change of sample gas
- Easy mounting and integration in gas analysis systems
- Very long lifetime
- Low and easy maintenance effort
- Corrosion resistant
- Gas tight
- For wall or front panel mounting
- Integrated precise needle valve
- Many different measuring ranges possible
- Low dead volume

FEATURES
- Calibration for air at 20 °C and 1.2 bara
- Special calibration possible
- Measuring cone made of borosilicate glass, top and bottom fittings made of stainless steel or PVDF
- Floating ball made of stainless steel or optional Hastelloy® C4, titanium, POM or glass
- Can be equipped with one or two monostable resp. bistable limit switches also for Ex area
- Compact robust construction
- Suitable for high pressures and temperatures
- Variable connection technology

TECHNICAL DATA

Model	**JDM**
Description	flowmeter with needle valve

Operation

Measuring ranges	1.6 to 16 / 4 to 40 / 6 to 60 / 10 to 100 / 25 to 250 / 50 to 500 / 80 to 800 Nl/hr
Accuracy	2.5 %
Operating temperature	–5° to 100 °C (–5° to 65 °C with limit switch) [23° to 212 °F (23° to 149 °F)]
Operating pressure at 100 °C	stainless steel: 11 bara, PVDF: 5 bara

Construction

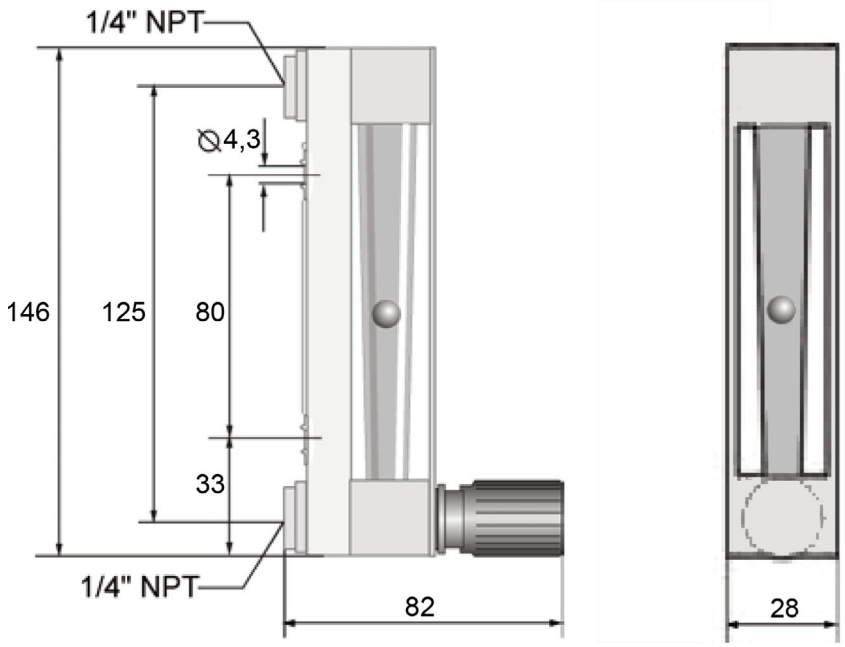
Dimensions over al (B x H x T)	28 x 146 x 82 mm [1.1 x 5.7 x 3.2 in]
Connections inlet / outlet	1/4“ NPT female
Gas wetted materials	top/bottom fittings: SS316L or PVDF measuring cone: borosilicate glass floating ball: SS316 (glass, POM, titanium, Hastelloy® C4 optional) sealings: PTFE/Viton® (PTFE/FFKM, PTFE/EPDM, EPDM, FFKM optional)
Mounting	wall or front panel mounting

Electrics

Switching function limit switch	bistable or monostable
Connection limit switch	2-wire DIN EN 50227 (NAMUR)
Nominal voltage U_o/ current consumption	8 VDC / 1 mA bzw. 3 mA

DIMENSIONS

dimensions in mm



ORDER CODES

PartNo	Description
84.00010	JDM flowmeter, SS316L, measuring range 6 to 60 Nl/hr air, 1,2 bara
84.00020	JDM flowmeter, SS316L, measuring range 10 to 100 Nl/hr air, 1,2 bara
84.00030	JDM flowmeter, SS316L, measuring range 25 to 250 Nl/hr air, 1,2 bara
84.00040	JDM flowmeter, SS316L, measuring range 50 to 500 Nl/hr air, 1,2 bara
84.00110	JDM flowmeter, PVDF, measuring range 6 to 60 Nl/hr air, 1,2 bara
84.00120	JDM flowmeter, PVDF, measuring range 10 to 100 Nl/hr air, 1,2 bara
84.00130	JDM flowmeter, PVDF, measuring range 25 to 250 Nl/hr air, 1,2 bara
84.00140	JDM flowmeter, PVDF, measuring range 50 to 500 Nl/hr air, 1,2 bara
84.00150	JDM flowmeter, PVDF, measuring range 100 to 1000 Nl/hr air, 1,2 bara
K1703355	Limit switch NAMUR type (also for Ex zones), bistable, for measuring ranges 16 / 40 / 60 / 100 / 250 Nl/hr
K1703350	Limit switch NAMUR type (also for Ex zones), bistable, for measuring ranges 500 / 800 / 1000 Nl/hr
K1704398	Ex isolation amplifier, single channel, intrinsically safe for limit switch 19...30 VDC/90...253 VAC, 50...60 Hz, SIL 2 ability
K1704399	Ex isolation amplifier, dual channel, intrinsically safe for limit switch 19...30 VDC/90...253 VAC, 50...60 Hz, SIL 2 ability

Other measuring ranges, floating ball and sealing materials, special calibrations, monostable limit switches and suitable electronics also for Ex area on request