

Airflow Regulation



PROPERTIES

- Accurate regulation of the Airflow.
- Precise and drift-free flow rate measurement.
- High efficiency.
- High reliability.
- Excellent stability in long-time use.
- Maintenance free.
- Longer service life.

APPLICATIONS

- Municipal Sewage Treatment Plants.
- Industrial Purification Plants.
- Large Sewage Treatment Plants.
- Small Wastewater Treatment Plants.
- Combustion Air regulation e.g. Steam Boilers in Waste Incineration Plants.

TECHNICAL SPECIFICATIONS

Fluids	Air for sewage basics or combustion air in process industries.
Pipe diameters	65...500mm (2.5"-20") (others on request)
Process conditions	-40 upto 250 °C (others on request) 0 to 10 bar (others on demand) Ultrapure to highly impure air.

Components



Components	Function	Benefits
1 Measuring path		<ul style="list-style-type: none"> • Compact construction • Built-in rectifier function, no inlet section required
2 Regulation drive	Here, the air-quantity setpoint from the process control system is connected, and the flap position is regulated accordingly	<ul style="list-style-type: none"> • Drive with integrated regulation • No additional wiring • Connect only setpoint and supply • High control quality • Easy parameterisation via Windows software • Various disturbance functions
3 Flap	Regulates the flow	<ul style="list-style-type: none"> • No dirt deposits • Robust • Cost-effective • Sensitive control characteristic
4 deltaflow + differential pressure transmitter	Measurement of actual flow value	<ul style="list-style-type: none"> • Insensitive to dirt and condensates • Highly accurate *) • Integrates across the whole pipe section • No drift of measured value • Maintenance-free

*) As an option, pressure and temperature can also be compensated.

FLOW

C

DELTAFIT

How to Order

	Diameter (connecting flange)	Material of measuring path	multivariable (incl. PT100)	Weather protection box	Supply voltage	Optional equipment
deltafit						
DT25	DN					
DN80 X 65 X 80	80					
DN100 X 80 X 100	100					
DN125 X 100 X 125	125					
DN150 X 125 X 150	150					
DN200 X 150 X 200	200					
DN250 X 200 X 250	250					
DN300 X 250 X 300	300					
DN350 X 300 X 350	350					
DN400 X 300 X 400	400					
DN500 X 400 X 500	500					
High-carbon steel, blank		CS				
Stainless steel		ES				
Differential pressure transmitter without pressure and temperature compensation			DP			
Differential pressure transmitter with pressure and temperature compensation			MV			
Without weather protection box				WSK0		
Weather protection box for the frost protection of the transmitter				WSK1		
230 VAC power supply					230	
115VAC power supply					115	
24VAC power supply					24	
Without bus						00
Profibus DP						11
ANSI connecting flange						12
Actuator with heating system (for ambient temperatures below -20°C)						13