

Coriolis Mass Flow Meter MULTICOR[®]-S



- Continuous mass flow measurement according to the Coriolis principle
- Highly accurate measuring principle
- Quick measurement value acquisition, with excellent control capability
- Rugged design
- Cost effective and easily integration
- Dust-tight housing

Application

Designed as an enclosed measuring system for the acquisition of flow rates and totalized amounts, the MULTICOR[®] Coriolis Mass Flow Meter is suited for throughput and consumption measurement:

- throughput and consumption measurement
- totalizing
- batching

of materials with good to slightly sluggish flow properties.

Equipped with controllable prefeeder (e.g. star feeder, flow gate or screw), the measuring system can also be used as feed system.

The MULTICOR[®] series offers solutions for many applications:

 MULTICOR[®]-S Gravity feed into processes

Equipment

A MULTICOR[®]-S Coriolis Mass Flow Meter consists of:

- dust-tight stainless steel housing
- measuring wheel with guide vanes
- weighing module
- cable junction box
- AC three-phase geared motor.

All contact parts are of stainless steel.

The inlet connection for attachment to user's infeed line is equipped with DIN flange or Jacob's pipe connection.

The outlet cone is equipped with a flexible sleeve for connection to user's feed line.

The weighing module arranged outside of material casing thus enabling the system to be used even at material temperatures of up to 130° Celsius.

Functions

The MULTICOR[®] Mass Flow Meter use the Coriolis force measurement principle to determine the mass flow. Within the device, the material flow to be measured hits a measuring wheel, rotation at constant speed.

The material is accelerated to the measuring wheel circumferential speed by the guide vanes.

This acceleration produces a torque directly corresponding to the flow rate. The torque is measured by a measuring module and converted into an electrical signal.

The measurement is independent of mechanical material properties, e.g. grain size, flow behaviour, moisture and temperature.

The material friction on the measuring wheel and flow speed variations in the measuring system do not affect the measuring signal.

Dimensions [mm] Coriolis Mass Flow Meter MULTICOR[®]-S40



Coriolis Mass Flow Meter MULTICOR[®]-S80



Coriolis Mass Flow Meter MULTICOR[®]-S160



Coriolis Mass Flow Meter MULTICOR®-S260





Coriolis Mass Flow Metere MULTICOR[®]

Series	S40	S80	S160	
Flow rate	min. 0,5 t/h-max. 20 t/h (40 m³/h)	min. 2 t/h-max. 60 t/h (80 m ³ /h)	min. 6 t/h-max. 150 t/h (160 m³/h)	
Accuracy (rated to actual flow rate)	from 0.5 % (depending on system configuration)			
Setting range	1 : 10			
Operating pressure	- 10 mbar to +30 mbar			
Pressure variations	<u>+</u> 5 mbar			
Inlet size	Ø 140 mm (DIN 2501 DN 125)	Ø 200 mm (DIN 24154)	Ø 249 mm (Anschlussbördel JAKOB-Rohr, Nennweite 250)	
Outlet connecting dimensions	Ø 356 mm		Ø 508 mm	
Weight	180 kg	230 kg	250 kg	
Ambient temperature	-25° bis +40° C (+50°C)			
Material temperature	max. 130° C			
Material density	min. density 0,3 t/m ³			
Grain size	max. 5 mm (single grain up to max. Ø 30 mm)		max. 8 mm (single grain up to max. Ø 30 mm)	
Moisture	max. 1%			
Flow properties	free flowing to slightly sluggish, also flushing, non-sticky, pulverized to granular			
Contact parts housing, measuring wheel WS 1.4404 / AISI 316 LN				
Special type for PE/PP Powder Feeds				
Series	S80	S160	S260	
Flow rate	in. 2 t/h–max. 60 t/h (70 m³/h) min. 6 t/h–max. 150 t/h (160 m³/h)min. 4 t/h–max. 100 t/h (260 m³/h			
Grain size	max. 5 mm max. 8 mm (single grain up to max. Ø 45 mm) (single grain up to max. Ø 50 mm)			
Contact parts	housing, measuring wheel WS 1.4404 / AISI 316 LN Option: measuring wheel Polyurethan			
Accuracy	Additional Requirements Ordering Data			
The stated accuracy relates to the Should you have		ave any special For us	Decial For us to be able to process your	
actual flow rate in the	10-100% requirements,	e.g.: order	smoothly and quickly, please	
range provided that bigger flow ratio 		rate range let us	je let us have the following data in	
 System is installed and calibrated use in the hazardo 		additi	s area addition to ordering numbers:	
in accordance with our		d into pneumatic feed		
installation and cali	bration lines	' Matei	rial Data	
Instructions. use as feed 		l system, Bulk (iel	
Thanks to the Coriolis measuring		know Mater	iai	
varving material properties (flow		Drem	Promotion Strongth Dongo	
behaviour, moisture, temperature.		Prom	from	
grain size).		Irom	[//N] [t/b]	
, 			[01]	
Variants		Options	Options	
MULTICOR [®] -S40 Coriolis Mass Flow Meter for		Wear lining for MULT	Wear lining for MULTICOR [®] -S	
0,5 t/h – 20 t/h with 50 Hz-Drive,		Prefeeder for MULTIC	Prefeeder for MULTICOR [®] -S	
MILL TICOD [®] -S80 Coriolic Mass Flow Motor for		Noise protection	Noise protection	
2 t/b = 60 t/b with 50 / 60 Hz-Drive		· · ·	Measuring rotor with non-adhesive coating	

Measuring rotor with non-adhesive coating Measuring wheel in special type for PE/PP powder feeds

MULTICOR[®]-S260 Coriolis Mass Flow Meter for 4 t/h – 100 t/h with 50 / 60 Hz-Drive Schenck Process GmbH

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6 t/h - 150 t/h with 50 / 60 Hz-Drive

MULTICOR[®]-S160 Coriolis Mass Flow Meter for