



S160 MULTICOR MASS FLOW METER

APPLICATIONS: Primarily designed for measuring high capacity, free to moderate flowing dry materials.

FEED RATES: Up to 160 m³/hr (5600 ft³/hr) standard; 150 metric tons per hour. Higher capacities available.

FEEDER ACCURACY: ± .5% accuracy available when metering over 10 metric tons per hour. Actual accuracies and repeatability is subject to application parameters and material characteristics.

MATERIAL CHARACTERISTICS: Free or moderate flowing, fluidized, but not adhesive or sticky.

- Particle size: Minimum: 90% > 90 microns, Maximum: 8 mm (.315 in)
- Moisture: Maximum allowable of 1%
- Bulk Density: Minimum 0.3 kg/l (18 lb/ft³)

TEMPERATURE LIMITS: Maximum material temperature is 130° C (266° F).

MATERIAL OF CONSTRUCTION: Product contact parts in stainless steel 1.4404 (AISI SS 316 L). Non-contact surfaces are low carbon steel (motor enclosure).

HOUSING:

- Operating Pressure: -2 to 20 mbar
- Design Pressure: -25 to 95 mbar
- Allowable Pressure Variation ± 5 mbar
- Ambient Temperature: -25 to 40° C (-13 to 104° F)
- Weight: Approximately 200 kg (441 lbs)

FOR FEED RATES OF 75 t/hr and 150 t/hr:

MOTOR: Coupled to drive shaft of rotor utilizing an inline reducer. Designed for reduced vibration for accurate measurements and longer bearing life. Motor speed monitored by Namur speed sensor for mass flow calculations.

- Power:
 - 75 t/hr:** 50 Hz: 2.2 kW (3 hp)
60 Hz: 2.6 kW (3.5 hp)
 - 150 t/hr:** 50 Hz: 3.0 kW (4 hp)
60 Hz: 3.6 kW (4.8 hp)
- Gear Reducer:
 - 75 t/h:** 4:1 (50 Hz)/5:1 (60 Hz)
 - 150 t/h:** 5:1
- Speed Sensor Pulses/Rev:
 - 75 t/h:** 20 (50 Hz), 25 (60 Hz)
 - 150 t/h:** 10
- Voltage: 230/440V 60 Hz AC,
230/400V 50Hz AC
- Protection Class (IEC): IP55
- Insulation Class: F
- Exterior Coating: Hard Coat Epoxy

ROTOR: Special designed vanes to maximize material flow rate through rotor. Computer balanced, using the same technology SCHENCK applies when balancing turbines, for weighing accuracy and extend bearing life.

- Number of Vanes: 16
- Max. Material Lump Size: 8 mm (0.315 in)
- Joints: Vacuum brazed to minimize distortion
- Material: Stainless Steel
- Options:
 - Wear resistant coating—Chromium Carbide for very abrasive materials
 - “Open Top”- to reduce stringy material build up on vanes



ROTOR SPEED:

- 75 t/hr:** 50 Hz: 360 RPM
60 Hz: 340 RPM
- 150 t/hr:** 50 Hz: 290 RPM
60 Hz: 340 RPM

WHEEL RADIUS: 250 mm (9.8 in)

LOAD CELL:

- Capacity for feed rates:
 - 75 t/hr:** 100 kg
 - 150 t/hr:** 300 kg
- Single Point design load cell
- Stainless steel
- Protection class: IP65
- Direct Loading on load cell, not through springs or flexures.
- Output: 2 mV/V

CONNECTIONS:

- Inlet: 250 mm Jacob Tube Flange
- Outlet: Flex Connector

OPTIONS:

- Hard Coat Rotor: Chromium Carbide coating to improve wear resistance for abrasive materials.
- Sound Insulation: Rubber lined internal cone and external insulation wrap to reduce noise. For typical hard plastic pellets applications at noise levels below 85 dB capacity feed rates can be achieved.
- Nitrogen Infeed: Fittings to allow supply of nitrogen for controlled environments.
- Bottom Cone Gasket: Seals the inner cone to the housing.
- Rubber Lined Inner Cone: Reduces the degradation of friable material or to improve wear life of the inner cone.
- Angel Hair Measuring Wheel for plastics applications.

For more information, please contact us at
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PRODUCT SPECIFICATIONS

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