



S300 MULTICOR MASS FLOW METER

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

FEED RATES: Up to 300 m³/hr (10,593 ft³/hr) standard; 300 metric tons per hour.

FEEDER ACCURACY: +/- .5% accuracy available when metering over 30 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) with 18 vanes and 5 mm (.197 in) with 24 vanes
- 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: A combination of carbon steel and stainless steel.

HOUSING:

- Operating Pressure: -5 to 10 mbar
- Design Pressure: -25 to 95 mbar
- Allowable Pressure Variation: +/- 5 mbar
- Ambient Temperature: -25 to 40° C (-13 to 104° F)
- Weight: Approximately 1100 kg (2,425 lbs)

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: 50 Hz: 6.7 kW (9 hp)
60 Hz: 7.3 kW (9.8 hp)
- Gear Reducer: 4.82:1 (50 Hz) / 5.61:1 (60 Hz)
- Speed Sensor Pulses/Rev: 10
- Voltage: 230/440V 60 Hz AC,
230/400V 50Hz AC
- Protection Class (IEC): IP65
- Insulation Class: F
- Exterior Coating: Hard Coat Epoxy

OPERATION: The S300 requires compressed air to operate.

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 extending bearing life.

- Number of Vanes:
18 or 24
- Max. Material Lump Size:
8 mm with 18 vanes or
5 mm with 24 vanes
- Joints: Vacuum brazed to minimize distortion
- Material: Stainless Steel
- Options:
 - Wear resistant coating
 - Chromium Carbide for very abrasive materials
 - Ni-PTFE to reduce sticking



ROTOR SPEED: 50 Hz: 300 RPM
60 Hz: 310 RPM

WHEEL RADIUS: 275 mm (10.8 in)

LOAD CELL:

- Capacity: 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: Flex Connector
- 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.
- 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 more information, please contact us at
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SPECIFICATIONS

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