

Milltronics A Series solids flowmeters are aerated heavy-duty low- to medium-capacity flowmeters for various density powders. The A Series flowmeters include integral vents and baffles for air and material separation. Typical applications include cement production, mining (backfill plants), and wall board production. With weighing mechanics located externally, they are unaffected by corrosive, abrasive, or hot materials and will operate at process temperatures up to 230 °C (450 °F). They help to improve final product, increase operating efficiency and provide significant cost savings.

Operating with the appropriate ILE sensing head and a microprocessor based integrator package, the A Series flowmeters provide a display of flow rate, totalized flow and alarms. Outputs are 0/4–20mA proportional to rate, and contact closure for remote totalization.

Dry bulk solids enter the flow guide producing a mechanical deflection as they strike the flowmeter sensing plate before continuing through the process unhindered. The LVDT of the sensing head converts the horizontal deflection into an electrical signal. The integrator processes this into a display of flow rate and integrated total weight. The weighing process is immune to the effect of product build up as only the horizontal force is measured.



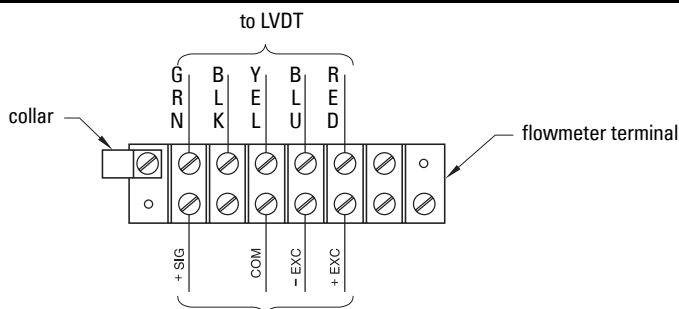
**Product Features**

- For easy adaptation to aerated gravity conveyor discharge
- Include integral vents and baffles for air separation
- Sensing element mounted outside process
- Flowrates from 0.2 to 300 t/h (0.2 to 330 STPH)

**Technical Specifications**

A Series	
Application	Suitable for flowrate measurements downstream of an aerated gravity conveyor
Particle Size	Fine powder to fine granular
Product Temperature (optional)	-40 to 232 °C (-40 to 450 °F) -40 to 400 °C (-40 to 750 °F)
Ambient Temperature	-40 to 60 °C (-40 to 140 °F)
Accuracy	±1 %, 33 to 100% of design capacity; extended accuracy range with linearization function of integrator
Repeatability	± 0.2 %
Capacity range	A-40 0.2 to 40 t/h (0.2 to 44 STPH) A-300 20 to 300 t/h (22 to 330 STPH)
Construction	Standard: Mild painted steel enclosure and 304 (1.4306) stainless steel sensing plate Optional: special coatings for flowguide and sensing plate
Sensing heads	A-40: ILE-37 A-300: ILE-61
Integrator	Milltronics SF 500

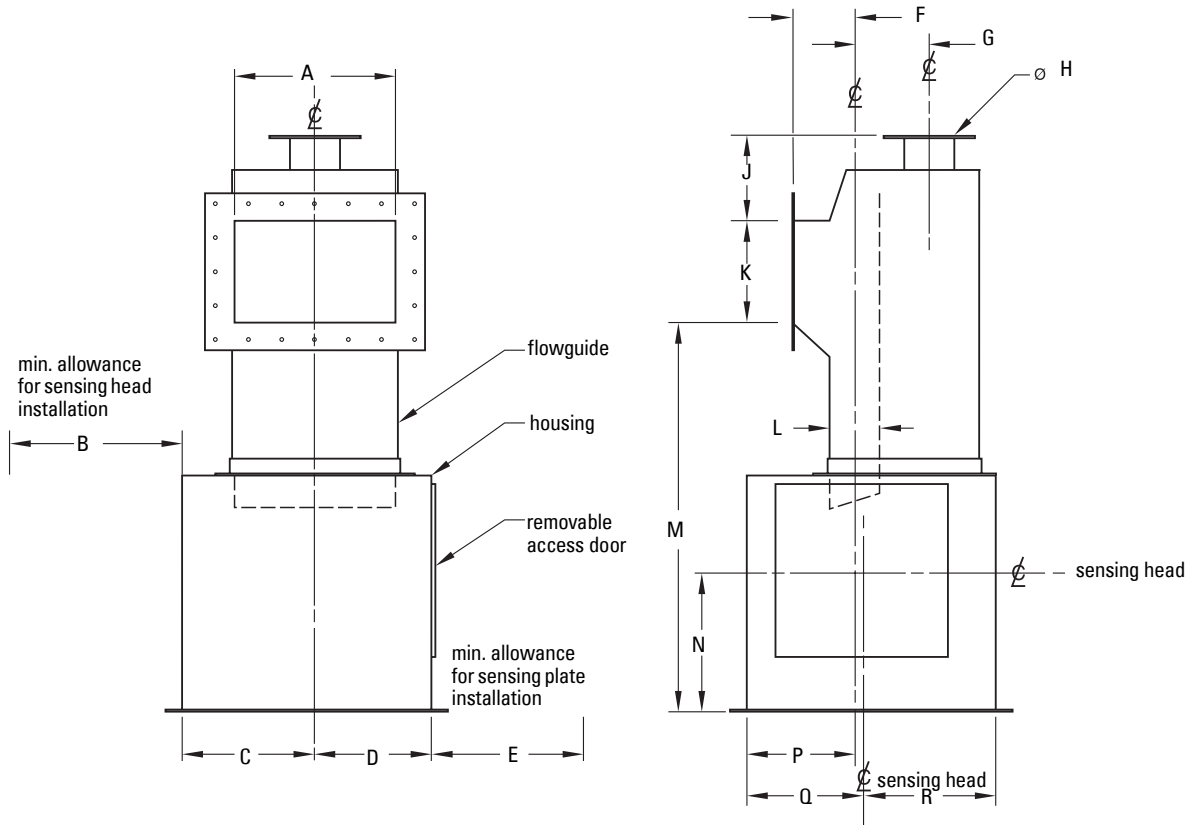
**Wiring**



To the LVDT conditioner card (internally or externally mounted) and Milltronics SF 500 integrator  
Consult Siemens Milltronics representative for hazardous rated versions.

*Specifications are subject to change without notice.*

## Dimensions



Size	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R
A-40 1	203 mm (8")	686 mm (27")	305 mm (12")	254 mm (10")	711 mm (28")	127 mm (5")	203 mm (8")	102 mm (4")	229 mm (9")	203 mm (8")	76 mm (3")	914 mm (36")	305 mm (12")	229 mm (9")	229 mm (9")	330 mm (13")
A-40 2	305 mm (12")	686 mm (27")	305 mm (12")	254 mm (10")	711 mm (28")	127 mm (5")	203 mm (8")	102 mm (4")	229 mm (9")	203 mm (8")	102 mm (4")	914 mm (36")	305 mm (12")	229 mm (9")	229 mm (9")	330 mm (13")
A-300 1	254 mm (10")	1041 mm (41")	406 mm (16")	356 mm (14")	889 mm (35")	191 mm (7.5")	229 mm (9")	152 mm (6")	254 mm (10")	305 mm (12")	127 mm (5")	1168 mm (46")	419 mm (16.5")	330 mm (13")	356 mm (14")	406 mm (16")
A-300 2	356 mm (14")	1041 mm (41")	406 mm (16")	356 mm (14")	889 mm (35")	191 mm (7.5")	229 mm (9")	152 mm (6")	254 mm (10")	305 mm (12")	152 mm (6")	1168 mm (46")	419 mm (16.5")	330 mm (13")	356 mm (14")	406 mm (16")
A-300 3	508 mm (20")	1041 mm (41")	406 mm (16")	356 mm (14")	889 mm (35")	191 mm (7.5")	229 mm (9")	152 mm (6")	254 mm (10")	305 mm (12")	178 mm (7")	1168 mm (46")	419 mm (16.5")	330 mm (13")	356 mm (14")	406 mm (16")