

AccuRate® Series Volumetric Feeding Systems

Compact, cost-effective – and a proven success



These systems are known for their economy and flexibility, as well as their ease of integration into existing production lines. With over 30,000 units already sold; Schenck AccuRate®'s volumetric feeding systems are a proven, cost-effective solution for bulk solids feeding needs. With feed rates ranging from approx. 0.1 l/h up to 8,000 l/h (0.0035 ft³/h to 283 ft³/h), the feeding system can be used for continuous feeding, charging and batching. The unit can process bulk materials with a particle size of up to 10 mm (0.39 in.). AccuRate® volumetric series feeding systems are highly flexible and can be used for a wide variety of applications – adding bulk solids to or removing them from processes, feeding additives, feeding extruders or compounders, or forming batches.

Advantages

- ☒ Feeding technology with no internal stirring system
- ☒ Feeding is gentle on the product
- ☒ Cost-effective, simple integration
- ☒ Compact design
- ☒ Low maintenance
- ☒ Proven technology with over 30,000 units sold

Our Solutions Package

- ☒ Robust welded stainless steel housing with easily detachable side panels
- ☒ Flexible screw trough of TUFFLEX vinyl (FDA approved) or polyurethane
- ☒ Flexible wall and external agitation aid (massaging paddles)
- ☒ Stainless steel extracting element or tube
- ☒ Protective grid
- ☒ DC or AC drive for feeding screw and paddle, with the option of separate or common controls

Options

- ☒ Large selection of control units for DC drive
- ☒ Potentiometers (with or without display) for setting feed rates
- ☒ For continuous or batch operation
- ☒ Adjustable paddle speed
- ☒ External nominal value input as analog signal
- ☒ A comprehensive line of feeding and auxiliary equipment for a wide variety of applications

AccuRate® Feeder			
	300 Series	600 Series	900 Series
Max. feed rate	~ 0.1 l/h – 105 l/h	1 l/h – 1,300 l/h	30 l/h – 8,000 l/h
Setting range	1 : 50	1 : 50	1 : 50
Hopper volume (w/o hopper extensions)	9 dm ³ (0.32 cu.ft.)	25 dm ³ (0.88 cu.ft.)	75 dm ³ (2.65 cu.ft.)
Discharge units – compatible diameter options	Ø 6, 10, 13, 19, 25 mm	Ø 13, 19, 25, 35, 45, 57 mm	Ø 57, 76, 102 mm
Standard length of discharge unit (from front end of feeder)	102 mm (4")	178 mm (7")	305 mm (12")
Maximum extension of discharge unit	~ 300 mm	~ 1,220 mm	~ 1,220 mm
Drive motor	0.09 kW DC / 0.09 kW AC	0.18 kW DC / 0.18 kW AC	0.55 kW DC / 1.5 kW AC
Protection type	IP 54	IP 54	IP 54
Supply voltage	230 V	230 V	230 V / 400 V (AC)
Weight	~ 30 kg (66 lbs.)	~ 65 kg (143 lbs.)	~ 186 kg (410 lbs.)
Ambient temperature	-20 °C to +40 °C (-4 °F to +104 °F)	-20 °C to +40 °C (-4 °F to +104 °F)	-20 °C to +40 °C (-4 °F to +104 °F)
Bulk material temperature	max. 80 °C (176 °F)	max. 80 °C (176 °F)	max. 80 °C (176 °F)
Bulk density	0.1 – 3 kg/l	0.1 – 3 kg/l	0.1 – 3 kg/l
Particle size	up to 10 mm (0.39")	up to 10 mm (0.39")	up to 10 mm (0.39")
Flow characteristics	free to moderate flowing material	free to moderate flowing material	free to moderate flowing material