

AVL SERIES

Compressed Air Loaders



AVL-B
(Shown with Optional Sight Glass)

Technical Specifications

AVL loaders are designed to provide trouble-free conveying using compressed air. These highly efficient, self-contained loaders use compressed air and an efficient venturi to draw material from drums, bins, material bags, or gaylords. The material is drawn through the venturi under vacuum and then conveys into the receiver using pressurized air. The material is separated from the air stream and is deposited into the bin or process machine. An efficient filtering system is used to capture material fines before air is exhausted into the plant. A simple control assembly is easy to operate and makes this loader a good choice for many single loading material conveying applications. Multiple configurations are available to support a wide range of applications.

Features

Standard Features

- 1-1/4" standard vinyl flexible hose
- Two hose clamps for 1-1/4" vinyl flex hose
- 3/8" poly hose air line
- Noise dbA <75

AVL-A and AVL-B Series

- Receiving hopper for material, standard flange with quick release fasteners
- Control assembly with low power consumption solenoid – 115/1/50-60 Hz
- Air filter/regulator combination with pressure gauge
- Capacitive sensor for material demand with 16.4 foot (5 meter) quick disconnect cable to control venturi/wand assembly with quick connect air line fittings

AVL-C

- Second venturi/wand assembly with quick connect air line fittings

- 1-1/4" O.D. wye-tube with coupler to attach to material inlet on receiving hopper
- Additional control assembly for second venturi assembly including air regulator with pressure gauges

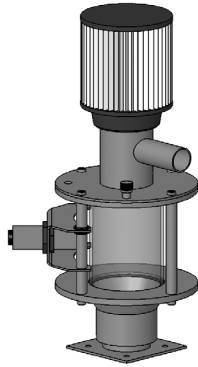
AVL-D Series

- Drum fill evacuation system
- Mobile drum stand on casters (two locking/two swivel) with adjustable arm and filtered 22" dia. drum cover
- Control assembly with low power consumption solenoid – 115/1/50-60Hz
- Capacitive sensor for material demand (inside drum) with 16.4 ft (5 meter) quick disconnect cable venturi/wand assembly with quick connect air fittings
- 1-1/4" standard vinyl flexible hose
- Two hose clamps for 1-1/4" vinyl flex hose
- 3/8" poly hose air line

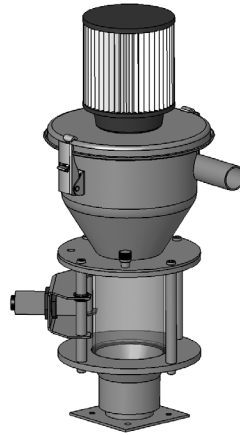
Optional Features

- Direct mount flange (with remote mount level sensor)
- Bin mount flange adapter with SRC 02-16 bolt circle (level sensor mounted to flange)
- Sight glass assembly for machine mount of AVL loader with sensor mounted to glass assembly with a capacity of 0.005 cubic feet (.140 liters) and 0.20 lbs. (91 grams)
- Torpedo magnet for sight glass assembly
- Dust bag kit with tube in lieu of standard filter for dusty regrinds (not available for AVL-A loaders)
- Universal adapter for grinder take-off attachment to fit up to 2" O.D. Material line connection (slips over existing tube stub)
- 230/1/50-60 voltage

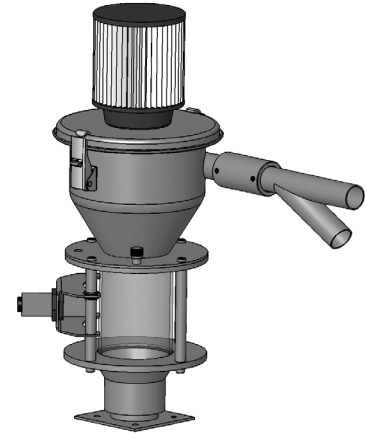
Product Diagrams



XVL-A



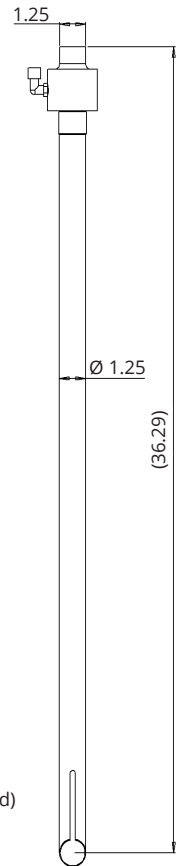
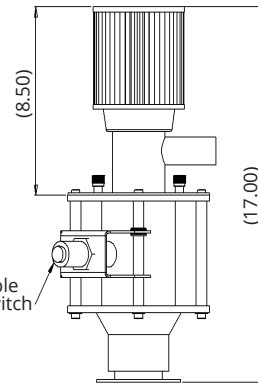
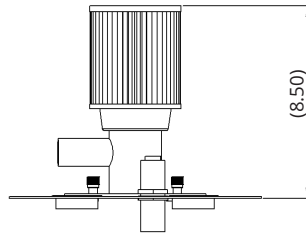
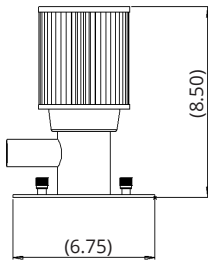
XVL-B



XVL-C

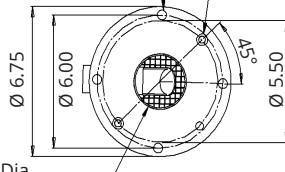
(Units Shown with Optional Sight Glass)

AVL-A



Pick-up Wand

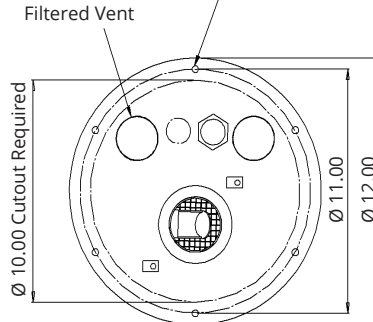
Retractable Screw, 1/4-20
(2) Places, 180 Deg. Apart
0.43 Dia. Thru Hole
(4) Places, 90 Deg. Apart



2.375" Dia.
(2.50" Dia. Cutout Required)

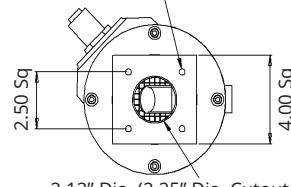
Direct Mount
Customer is Required to
Mount Proximity Sensor

0.31" Dia. Thru Hole
(6) Places, Evenly Spaced



Hopper Mounted

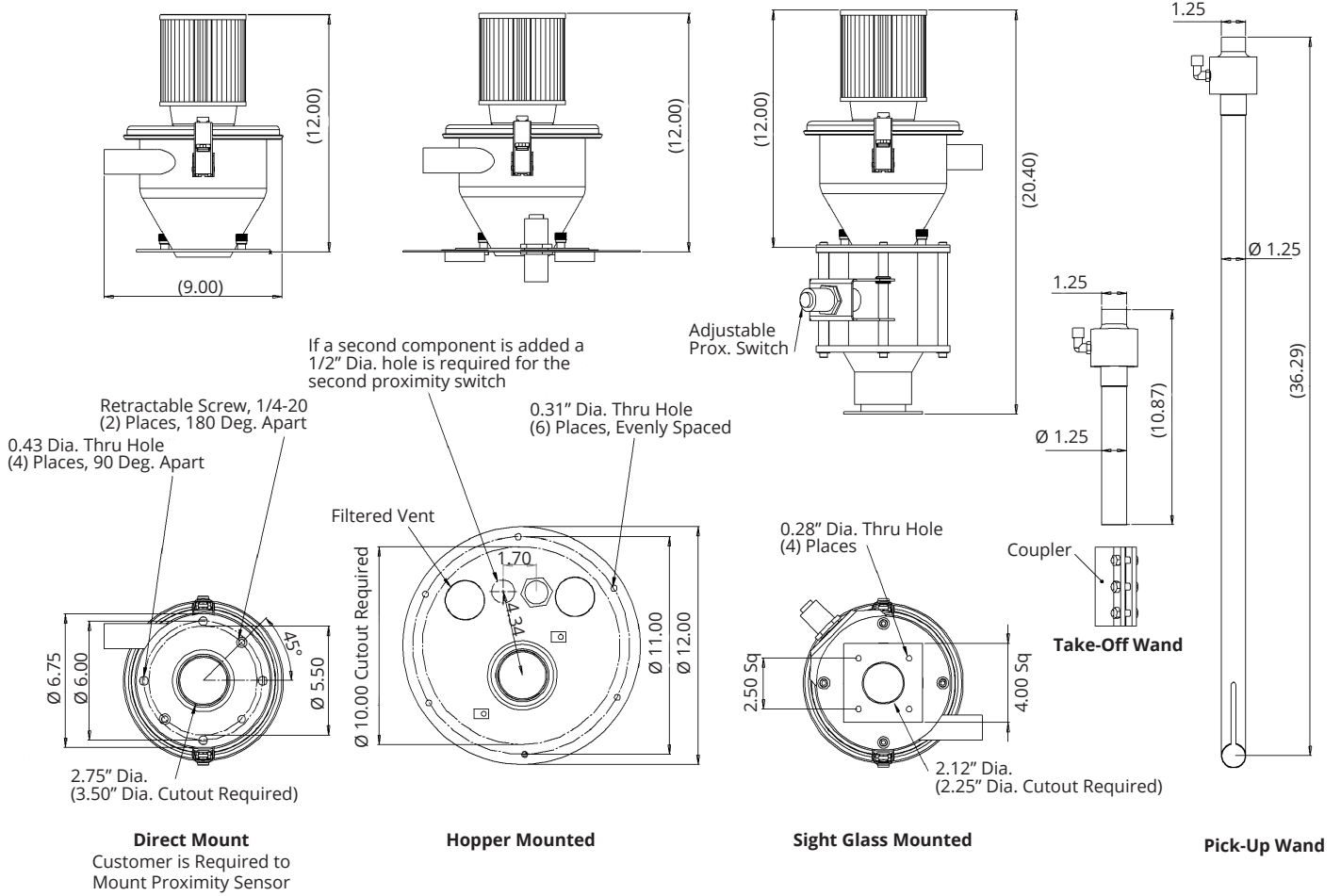
0.28" Dia. Thru Hole
(4) Places



Sight Glass Mounted

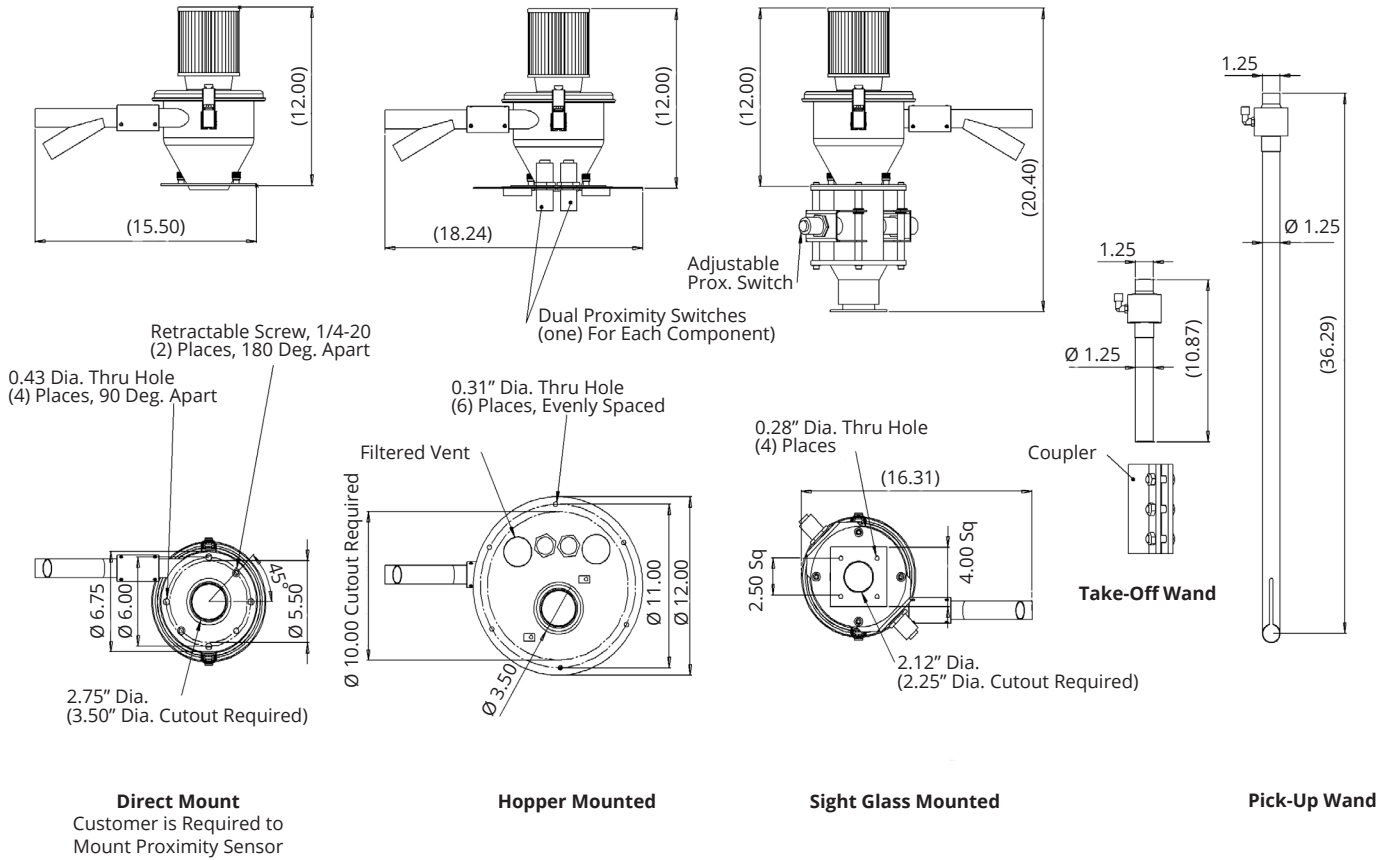
Product Diagrams

AVL-B



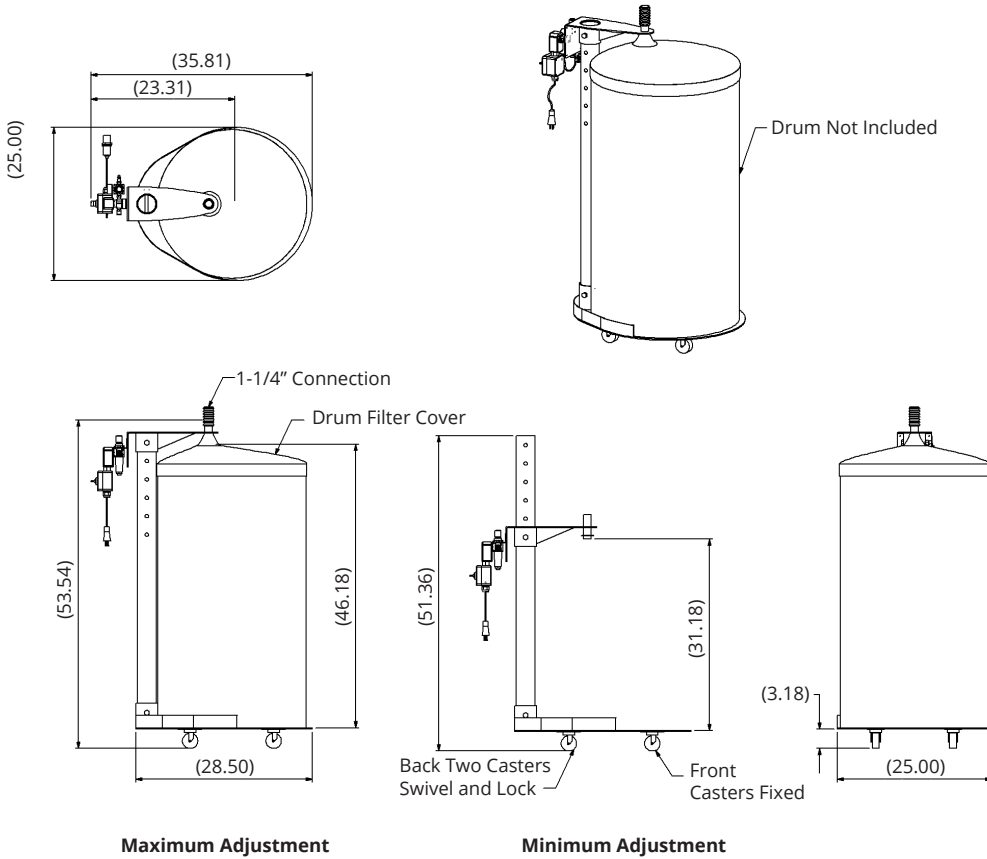
Product Diagrams

AVL-C



Product Diagrams

AVL-D



Specifications

Model	Maximum Throughput, lbs./hr (kg/hr) ¹	Max. Conveying distance, ft. (m)	Compressed Air Supply, PSI (bar)	Compressed Air Consumption, scfm (l/min)	Vacuum Performance, H ₂ O (kPa)	Typical Comp. Air Consumption, scfm (l/min) psig (bar)	Max. Product Temp., F° (C°)
AVL-A	475 (215)	Horizontal - 30 (9.14)	70-90 (5-6)	25.9 (733) (Based on 100% continuous use)	-42" (-11)	8-10 scfm (227-283 l/min) @ 80 psig (6 bar) based on 30% duty cycle for intermittent use	176 (80)
AVL-B							
AVL-C		Vertical - 12 (3.7)					
AVL-D							