

# VIPERSORT

Right Angle Sortation Conveyor

The model ViperSort is a right-angle sortation conveyor used to sort small- to medium-size products. The ViperSort utilizes a patented design which enables the sorting of cylindrical products, extremely thin items such as blister packs, vinyl envelopes, and other problematic items.

- 4 Widths Available
- Sorts Up to 120 Items Per Minute
- Blue Acetal Open Grid 1 in. Pitch Cleated Plastic Belt
- Flexible Sort Locations
- Adjustable MS-Type Floor Supports Available
- Close Divert Centers



Overall Width	Belt Width	Base Weight with Gravity Cantenary	Base Weight with Pneumatic Cantenary	Conveyor Weight lbs. Per Foot
13 1/4"	12"	428 lbs.	599 lbs.	14.3
15 1/4"	14"	448 lbs.	618 lbs.	15.7
17 1/4"	16"	463 lbs.	639 lbs.	17.1
19 1/4"	18"	488 lbs.	658 lbs.	18.5

Total Weight = Base Weight + (Conveyor Weight per Foot x (Overall Length - 9 ft.)) + (115 lbs. x Num. of Diverters)

## Standard Specifications - Conveyor

**BELT** – Blue, acetal open grid 1 in. pitch with cleat every 2.1 in.

**BED** – 6 3/8 in. deep x 12 ga. formed steel bed powder-painted with aluminum guide rail extrusion and capped with UHMW wearstrip placed on bed for carry way.

**DRIVE SPROCKET** – 9.7 in. PD split steel sprocket 2 1/2 in. square bore.

**TAIL SPROCKET** – 6.1 in. PD split steel sprocket 2 1/2 in. square bore.

**RETURN CARRY WAY** – Aluminum guide rail extrusion capped with UHMW wearstrip placed on inside of bed bottom flange.

**TAKE-UP** – 80 ft. and less have gravity cantenary, over 80 ft. has pneumatic take-up with 6 in. pulleys.

**BEARINGS** – 4-bolt, 1 15/16 in. bore cast iron sealed, pre-lubricated, self-aligning ball bearing with eccentric lock collars.

**DRIVE** – Shaft-mounted gearmotor 230V or 460V, 3 Ph. 60 Hz.

**CAPACITY** – Maximum unit package weight 25 lbs. For maximum conveyor distributed load. Contact factory.

**AIR FILTER/REGULATOR** – Use with pneumatic take-up. Supplied for main air supply line with 1/2 in. NPT ports. Required working pressure of 15 to 20 PSI, 20 PSI max.

**VARIABLE SPEED CONTROLLER** – Provides smooth acceleration of drive motor and speed variations, if necessary. Maximum belt speed is 120 FPM.

## Optional Equipment

**FLOOR SUPPORTS** – MS Type floor supports are available with a wide range of adjustment. Specify top of belt or roller elevation. One support required at every bed joint and ends of conveyor. Holes in feet for lagging to floor. Knee braces recommended above MS-6 support.

**PROLOGIX® VIPERSORT CONTROL PACKAGE** – Provides complete controls for proper sorter operation. Contact factory for details.

**BELT** – Blue acetal flat top 1 in. pitch; less cleats.

**DUAL-SIDED DIVERTERS** – Pushers located on both sides with staggered centers

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## Standard Specifications - Pusher

**RATE** – Up to 120 items per minute depending on item size and weight.

**CAPACITY** – Maximum unit package weight 25 lbs. See Rate.

**PACKAGE SIZE** – 24 in. long maximum. If over 24 in. contact factory.

**AIR CYLINDER** – High speed 32mm dia. bore x 325mm stroke guided cylinder.

**AIR REQUIREMENTS** – Working pressure 60 PSI. Free air consumption at 60 PSI, 0.1 cu. ft. per cycle.

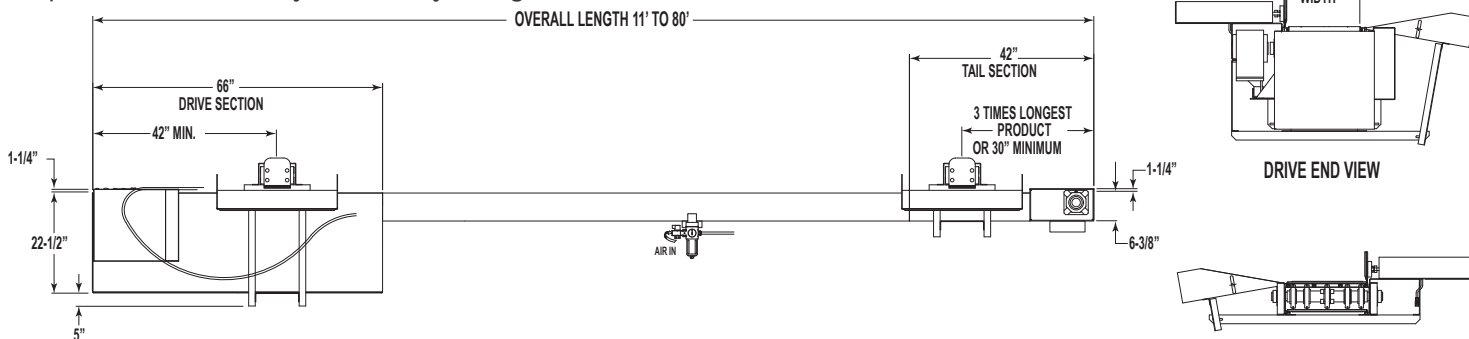
**AIR VALVE** – 24VDC double solenoid 4-way air valve.

**AIR FILTER/REGULATOR WITH LOCKOUT** – Supplied for main air supply line with 3/4 in. NPT ports. Maximum of 6 diverts per regulator.

**CHUTE** – Adjustable 27 1/2 in. wide x 24 in. long x 12 ga. formed steel chute; powder-painted.

**STROKE SENSOR** – Two 24VDC sensors, adjustable for setting stroke length and determining home position.

## ViperSort with Gravity Cantenary (Lengths of 11' to 80', 6" Increments)



## ViperSort with Pneumatic Take-Up (Lengths over 80', 6" Increments)

