

## Rugged Duty Actuator DC Motor Acme Screw

Up to 600 lbs. Rated Load

Up to 2.7 in./sec. Travel Speed



This value model of the B-track family is well suited for the toughest applications not needing the full load capability of standard K2 models. The K2vL uses a flange bronze bearing configuration for internal load transfer, offering the lowest cost while maintaining the rugged-duty performance capabilities of the B-track family.

K2vL units feature Nicrotec® corrosion protection on end fittings and rods, high performance powder coat paint on cover tubes and gear box covers, providing a totally sealed, weatherproof, and durable finish for years of trouble-free service.

### Features

- Protective coatings and O-ring seals throughout
- Hybrid nut and screw design, no brake needed
- Ball detent overload clutch
- 2 to 24 inch stroke lengths
- Up to 600 pound load capacities
- Speeds up to 2.7 in./sec. travel
- Thermal overload incorporated into the motor
- Heavy wall construction
- Double ball bearing motors
- Heat treated gears
- Rugged extension rod bearing support
- Optional 90 vdc motor for use with SBC-AC control
- Custom mounting options available

### Typical Applications

- Flow gate open/close
- Deck and implement lifts for tractors and mobile applications
- Wheelchair and scooter lifts
- Bin and tank cover lifts
- Remote engine clutch engagement

### Load/Current/Speed/Duty Cycle

- Maximum Static Rating: 3000 lbs. Static (in-line load)
  - Refer to performance chart for load/current/speed capabilities
  - Stroke Length Tolerance: +/- .06"
  - Motor is protected with auto reset breaker inside motor housing (temperature/current/time dependent)
  - Overload clutch setting: +25% over rated dynamic load
  - Duty cycle is time/temperature/load dependent, suggested guidelines are:
    - 50% max on-time/50% off-time for loads up to 50% of capability
    - 25% max on-time/75% off-time for loads between 50%-80% of capability
    - 10% max on-time/90% off-time for loads between 80%-100% of capability
- (Load/stroke profiles will allow some adjustment variation from these guidelines.)

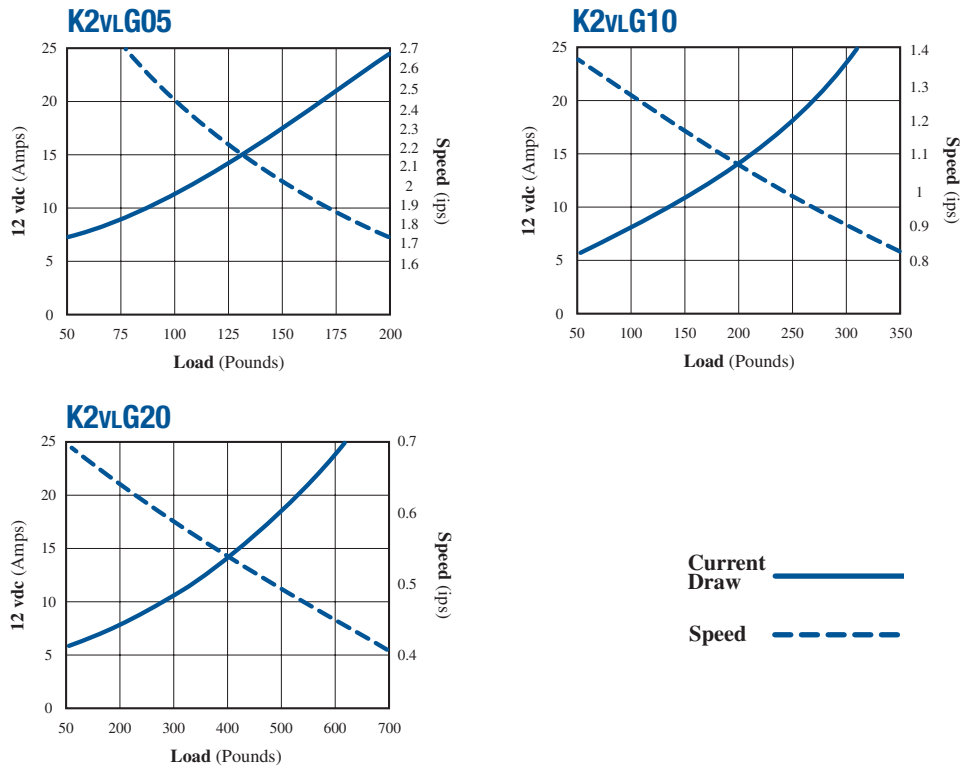
### Operating Environment

- Ambient temp range: -30°F to 150°F
- Weather resistant enclosure & seals (IP 65 capable, 250 hour salt spray, 500 hour for paint)
- Normal operating voltage: 10-16 vdc (Ratings are at 12 vdc Normal.)

### Control/Connections

- 14 gauge stranded lead wires-UL style 1230 w/PVC insulation Class F 105°C
- Lead wires abrasion protected with braided covering
- Use momentary contact double pole/double throw switch in powering unit for extend/retract operation. (ON)-OFF-(ON) DPDT
- Connectors:
  - Packard 56 series or Delphi Weather-Pack
  - Packard 56 series with 56 series blades (#2984883 & #2962987)
  - Delphi Weather-Pack series (#121015792 & #12010973)

## Performance Curves



## Dimensions

B-Track K2vL	Stroke	2	4	6	8	10	12	14	16	18	20	22	24
		in	in	in	in	in	in	in	in	in	in	in	in
A		8.32	10.32	12.32	14.32	16.32	18.32	20.32	22.32	24.32	29.32	31.32	33.32
B		10.32	14.32	18.32	22.32	26.32	30.32	34.32	38.32	42.32	49.32	53.32	57.32

**Note:** Special lengths available

