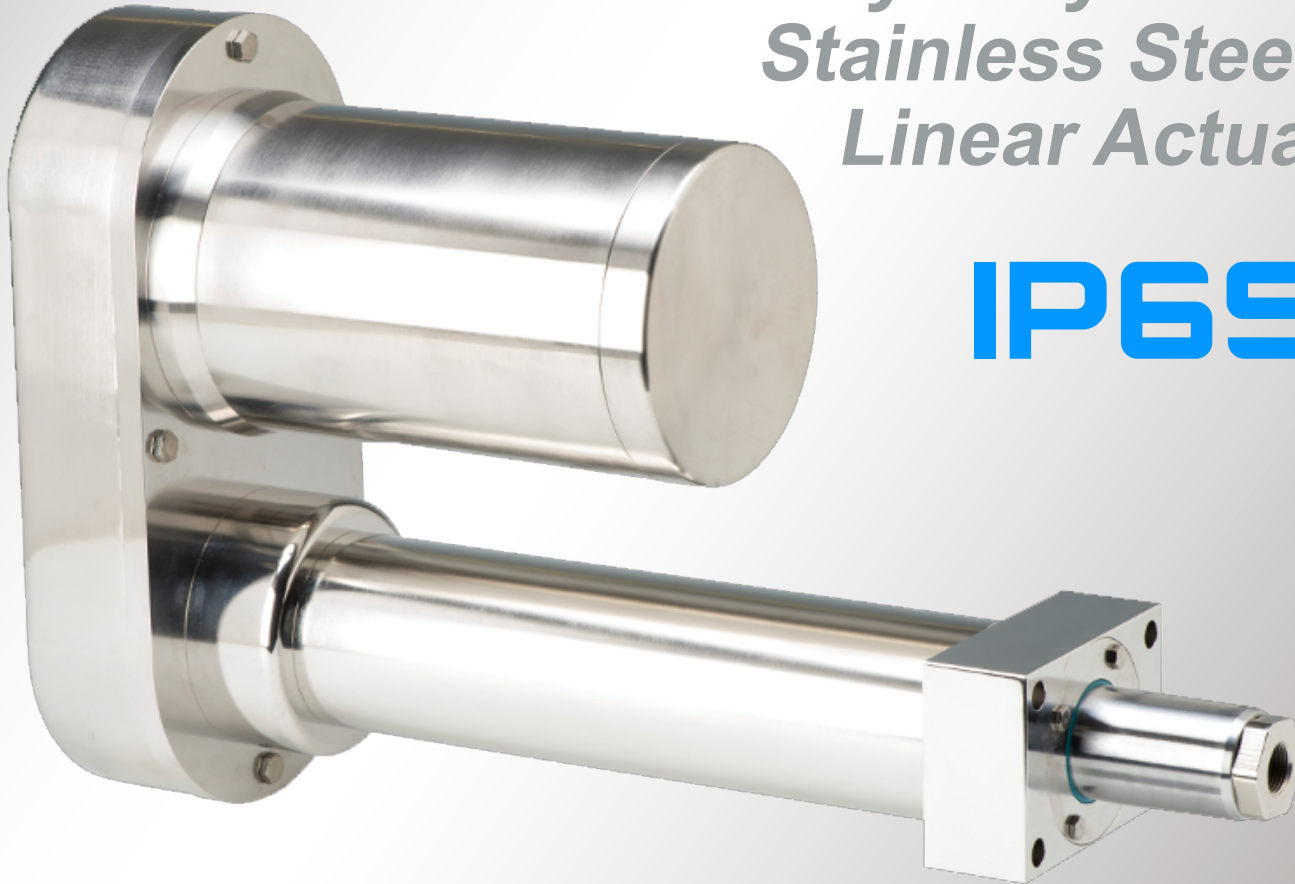


# Eliminator SP/SPL™

*Heavy Duty  
Stainless Steel  
Linear Actuators*

**IP69K**



- **Contoured 316 Stainless Steel Exterior**
- **IP69K Rated Sealed Chamber Design**
- **Thrust from 2,000 to 25,000 Pounds**
- **Simultaneous High Thrust with High Speed**
- **Piston with Rugged Anti-Rotation Feature**
- **Hard Chrome Plated Steel Piston Rod**
- **Internal Load Cell Option Available (SPL)**

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**EDRIVE**<sup>™</sup>  
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Precision Mechanical Products



***Precision Experience In Motion™***

# Eliminator SP/SPL™ 316 Stainless Steel IP69K

The Heavy Duty Stainless Steel (SP/SPL) series linear actuators provide a strong, durable, and precise linear actuator for high-end applications in areas requiring frequent exposure to high temperature or caustic cleaners. They offer all the performance advantages of our HD actuators with the additional benefit of a 316 stainless steel exterior with hard chrome plated steel piston rod and IP69K protection. As a better, cleaner alternative to hydraulic cylinders, they eliminate many concerns, such as noise, heat, leakage, controllability, and low stiffness, while handling high loads at high speeds and maintaining rugged, durable construction.

Designed for IP69K washdown, the exterior is contoured to prevent liquid from pooling. Options include rounded and/or peaked drive covers, front or rear round caps, and internal load cell. Hex head fasteners are used externally.

Drive has shown consistent success in the toughest applications, e.g. high loads, high speeds, high precision, and extreme durability and can withstand high-pressure, high-temperature cleaning.

The long bronze nose bearing provides support for the extended piston. Rugged bronze keys in opposing steel slots provide anti-rotation and counter the tangential forces created during high speed, high frequency, and high load operation.

and 2:1 synchronous gear belt ratios. Machine tool design principles and guidelines ensure the robust sizing of all components. Traditional front flange, bottom, foot, and trunnion mounting capabilities are available as standard designs.



Re-grease and Purge Ports (shown above)

While other actuator designs force a particular motor decision, the SP/SPL is designed to suit virtually any motor, gearbox, or gear-head the customer chooses to use. In-line as well as parallel-offset configurations are standard with 1:1

### Options:

- Rounded and/or peaked drive covers
- Round front or rear caps
- Internal load cells (SPL)
- Machined to suit any motor\*
- Limit switches



## Specifications

Model Number	Thrust Load Rated (lb <sub>r</sub> )	Linear Velocity Max. (in/s)	Travel Length Max. (in)	Frame Size (in)	Lead (mm)	Ball Screw Diameter (mm)	Ball Screw Speed Max. (RPM)	Torque @ Ball Screw Max. (in-lb)	Dynamic Capacity/ Million Revs (lb <sub>r</sub> )	Dynamic Capacity/ Million Inches (lb <sub>r</sub> )	Motor Gearhead Frame Supported Max. (in)
SP201	1,000	8.0	12	2	4	16	3,048	28	1,529	825	2.75
SP302	2,000	23.0	36	3	10	25	3,505	139	6,490	4,760	4.25
SP304	4,000	23.0	36	3	10	25	3,505	278	6,490	4,760	4.25
SP404	4,000	18.0	42	4	10	32	2,743	278	14,580	10,690	5.75
SP406	6,000	18.0	42	4	10	32	2,743	418	14,580	10,690	5.75
SP508	8,000	14.0	48	5	12	50	1,778	668	31,250	24,340	8
SP516	16,000	14.0	48	5	12	50	1,778	1,337	31,250	24,340	8
SP618	18,000	9.8	48	6	12	63	1,245	1,504	35,750	27,840	8
SP625	25,000	14.4	48	6	20	80	1,097	3,481	52,150	48,160	8

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