

Series SLA

LeakLess

Electric Pump



PUMP CATEGORY

Type: LeakLess Plunger
 Control: Stroke Length
 Adjustment Stroke Length: 0 - 1 in (0.0 - 25.4 mm)
 Maximum Rod Load: 1,500 lbf (6.67 kN)
 Reduction Ratio: 15:1
 Maximum Motor Speed: 1,800 RPM

FLOW RATE

0.0 - 50.87 USG/H (0.0 - 192.56 L/H)

PRESSURE

0.0 - 13,500 PSIG (0.0 - 931 BARG)

NEW DESIGN TECHNOLOGY

- 100+ Million Strokes at 10,000 PSI Without Failure
- Engineered to Replace Diaphragm Pumps
- Rapid Bleeding Design
- New Patent Pending Technology Virtually Eliminates Seal Wear

CHEMICAL RESISTANCE

Proprietary, high-quality seal materials enable CheckPoint pumps to provide unparalleled chemical resistance. Wetted components are available in an array of materials. Chemical applications include, but are not limited to:

- Scavengers (H₂S, O₂, CO₂)
- Hydrate Inhibitors (MeOH, MEG, LDHI)
- Foamers and Defoamers
- Corrosion, Scale, and Paraffin Inhibitors
- Clarifiers, Biocides, Bleaches, and Acids

WARRANTY

CheckPoint guarantees 12 months of material and workmanship.

SLA-P MODEL	FLOW RATE (MINIMUM) USG/H (L/H)	FLOW RATE (MAXIMUM) USG/H (L/H)	WORKING PRESSURE (MAXIMUM) PSIG (BARG)	PLUNGER DIAMETER IN (MM)	DIMENSIONS L X W X H IN (MM)	WEIGHT LB (KG)	SUCTION CONNECTION	DISCHARGE CONNECTION	
VERTICAL	1500 3/8"	0.0 (0.0)	3.18 (12.04)	13,500 (931)	3/8 (9.5)	16.9 (430) x 15.4 (391) x 18.6 (472)	77 (34.9)	1/2" MNPT	3/8" AC
	1500 1/2"	0.0 (0.0)	5.95 (22.52)	7,600 (524)	1/2 (12.7)	16.9 (430) x 15.4 (391) x 18.5 (470)	76 (34.5)	1/2" MNPT	1/2" MNPT
	1500 3/4"	0.0 (0.0)	12.72 (48.15)	3,300 (228)	3/4 (19)	16.9 (430) x 15.4 (391) x 18.5 (470)	76 (34.5)	1/2" MNPT	1/2" MNPT
	1500 1"	0.0 (0.0)	22.61 (85.59)	1,900 (131)	1 (25)	16.9 (430) x 15.4 (391) x 18.5 (470)	76 (34.5)	1/2" MNPT	1/2" MNPT
	1500 1-1/2"	0.0 (0.0)	50.87 (192.56)	800 (55)	1-1/2 (38)	16.9 (430) x 15.4 (391) x 18.7 (475)	88 (39.9)	3/4" MNPT	3/4" MNPT
HORIZONTAL	1500 3/8"	0.0 (0.0)	3.18 (12.04)	13,500 (931)	3/8 (9.5)	12.7 (323) x 17.9 (455) x 18.6 (472)	77 (34.9)	1/2" MNPT	3/8" AC
	1500 1/2"	0.0 (0.0)	5.95 (22.52)	7,600 (524)	1/2 (12.7)	12.7 (323) x 17.9 (455) x 18.5 (470)	76 (34.5)	1/2" MNPT	1/2" MNPT
	1500 3/4"	0.0 (0.0)	12.72 (48.15)	3,300 (228)	3/4 (19)	12.7 (323) x 17.9 (455) x 18.5 (470)	76 (34.5)	1/2" MNPT	1/2" MNPT
	1500 1"	0.0 (0.0)	22.61 (85.59)	1,900 (131)	1 (25)	12.7 (323) x 17.9 (455) x 18.5 (470)	76 (34.5)	1/2" MNPT	1/2" MNPT
	1500B 1-1/2"	0.0 (0.0)	50.87 (192.56)	800 (55)	1-1/2 (38)	12.7 (323) x 17.9 (455) x 19.8 (503)	88 (39.9)	3/4" MNPT	3/4" MNPT

Tabular data reflects single head plunger pump with 15:1 drive and 1,750 RPM motor in vertical orientation. Flow rate minimums are accurate for regular pump operation. Use within 10-100% of flow rate maximums and fluid viscosity up to 10cP to achieve API accuracy, linearity, and repeatability guidelines. Tabular data should be used for quick reference only. See performance curves for accurate pump selection.



CheckPoint's New LeakLess Head Technology boasts surprising results for even the most seasoned pump experts. Tested to more than 100 million strokes yet the seals did not reach failure. The LeakLess design was initially engineered to answer the industry's historical appreciation for diaphragm pumps, while hoping for higher pressures and more consistent injection volumes. The product exceeded its goals and now stands to revolutionize CheckPoint's Patented products beyond even this model release. Paired with the Series SLA electric drive, the pump delivers up to 50.87 USG/H (192.56 L/H) and can reliably inject into pressures up to 13,500 PSIG (931 BARG) per head. It features a robust casing and a variable eccentric drive designed to withstand harsh conditions of oil and gas installations, and it contains minimal moving parts to further guarantee long-term reliability and superior uptime. The Series SLA electric pump's controlled volume pump specifications and high metering accuracy meet or exceed API674 and 675 standards. A nearly infinitely adjustable stroke length of 0-1 in (0-25.4 mm) ensures extremely precise and accurate dosing and a large turndown ratio of 10:1*. The flow rate can be controlled while the unit is stopped or running by a single hand with the manual Vernier scale dial. Optional rotary actuators are available to allow for remote rate control, can be used on each injection head independently for multi-injection service and are available in many area classifications and control signal types. Multiple drives may be combined with one motor to provide redundancy, or to service several injection points. This feature aids in minimizing cost, footprint, and weight, while maintaining a high degree of accuracy at each individual point regardless of differences in operating pressures. CheckPoint's Series SLA drives can be coupled, and a large selection of motors can be accommodated. The design of this electric pump provides a wide variety of solutions and ensures compliance to any electrical requirements. To meet a wide array of chemical injection applications and to reduce spares inventory through part interchange-ability, Series SLA pumps utilize CheckPoint's distinguished LeakLess modular chemical heads, which offer a full range of plunger diameters from 1/8" to 1-1/2".

Our pumps maintain unparalleled chemical resistance due to the essential integration of high-quality, proprietary seal materials. In order to meet a wide variety of chemical compatibility needs, wetted parts are available in an array of materials, such as 316 SS, Hastelloy C-276, Duplex 2205, Super Duplex 2507, PVC, ceramic and titanium, and seals are available in Viton, HNBR, FKM, and FFKM. All wet end construction materials meet the requirements of NACE MR0175 and ISO 15156.

We recommend "Plug & Play" injection packages (as pictured below) as an optimum solution to efficiently and effectively integrate chemical injection into your process. CheckPoint has engineered, manufactured, and sourced high-quality components which, combined in a package with our pumps, maximize product life and optimize productivity. We also offer custom system design and technical services to meet specialty product requirements. CheckPoint will create a solution that meets your specific chemical injection needs, from concept to completion.

*Series SLA can achieve zero flow and meets API 675 accuracy, repeatability, and linearity requirements for a 10:1 turndown ratio (10 - 100% flow range) with fluids up to 10cP viscosity. The pump can be used between 0-10% stroke length and with higher viscosity fluids but may not meet API guidelines under such conditions.

