

>Lightnin®



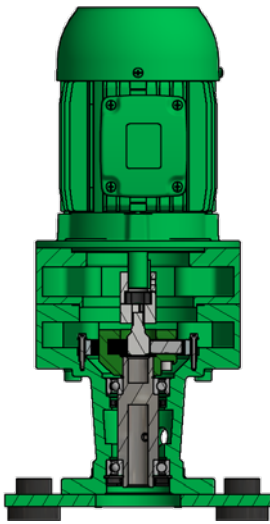
# EV SERIES

PORTABLE MIXERS

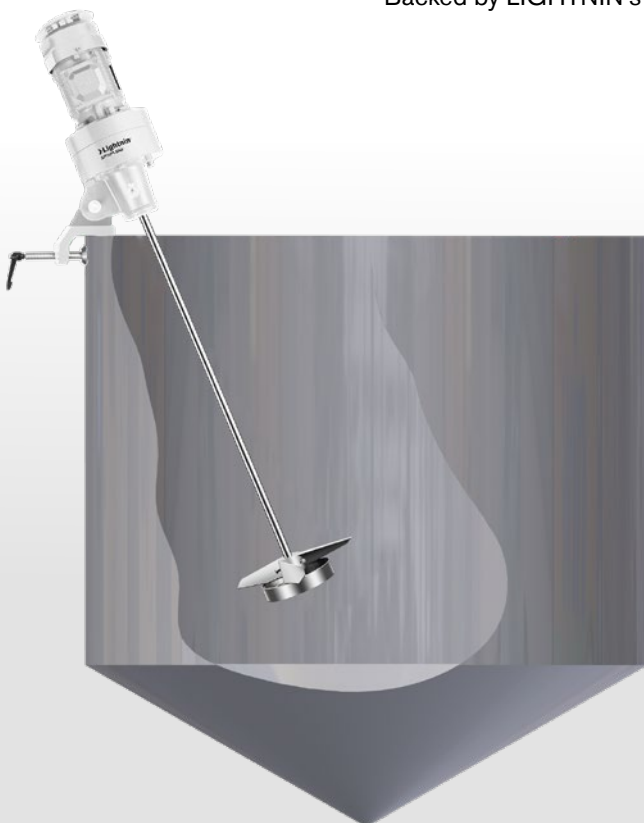


SPXFLOW®

# QUALITY & RELIABILITY FROM THE WORLD LEADER IN FLUID MIXING



- 1/4, 1/3, 1/2 and 3/4-HP models available, motor rating 0.25-0.75HP (0.25kW-0.75kW) Models are available.
- Switch, cord, and plug are available - no need for hard wiring on single-phase TEFC motors.
- Washdown and Stainless Motors are readily available.
- 280 RPM / 350 RPM (50Hz / 60Hz) Gear Drive units feature lower speeds and higher torque for mixing large batches of low-viscosity fluids or smaller batches of high-viscosity fluids
- Self-aligning, floating gears optimize load sharing and reduce wear
- 1425 RPM / 1780 RPM Direct Drive units are designed for small batch mixing plus high fluid shear applications
- Sealed-for-life lubrication offers low-maintenance operation, and food-grade lubrication is available.
- Oversized bearings provide superior shaft support.
- High efficiency, high flow A310 hydrofoil impeller as standard.
- Mechanical Polish and Electropolish are available.
- Backed by LIGHTNIN's 100% process guarantee.



## UPGRADED SANITARY FEATURES:

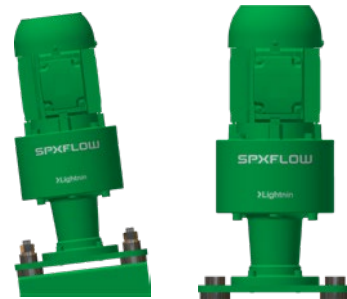
- Food Grade Paint
- Seals with FDA Acceptable Materials and USP Class VI Elastomers
- IP56 Washdown Motors (Painted and Stainless Options Available)
- Food Grade Grease
- Quality Assurance Documentation
- Polish
- EP

# EV SERIES MOUNTING OPTIONS



## CLAMP / BEAM PLATE MODULE (P)

- Clamps to vessel or stand
- 0° to 90° vertical adjustment
- 20° / 0° standard horizontal mounting
- Adjustable mounting to control fluid flow patterns for better mixing



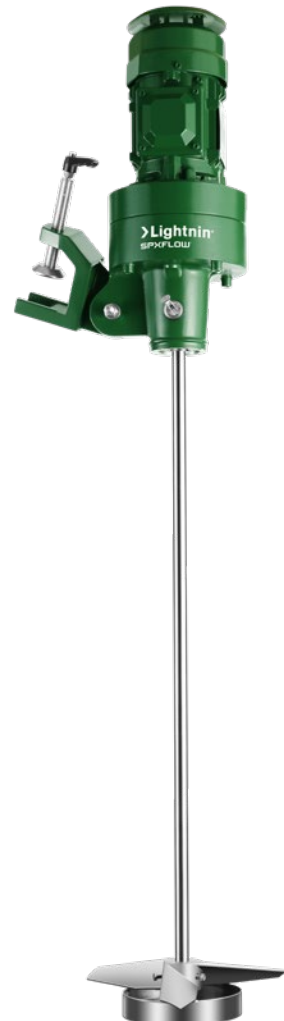
## FIXED MOUNT (OPEN TANK) MODULE (Q)

- Vertical on center for baffled tanks
- Vertical offset / Angled offset for unbaffled tanks
- Rubber base mounts allow operation through the shaft's 1st natural frequency

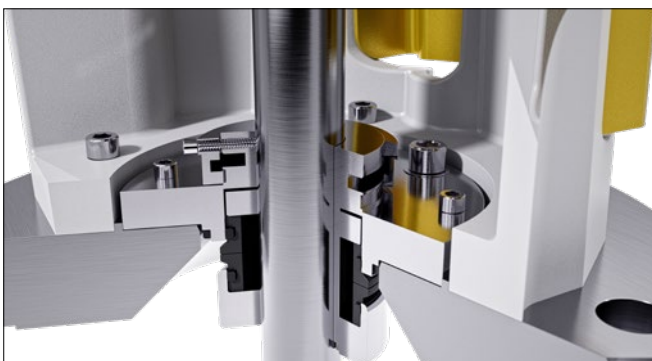


## FLANGED MOUNT (CLOSED TANK) MODULE

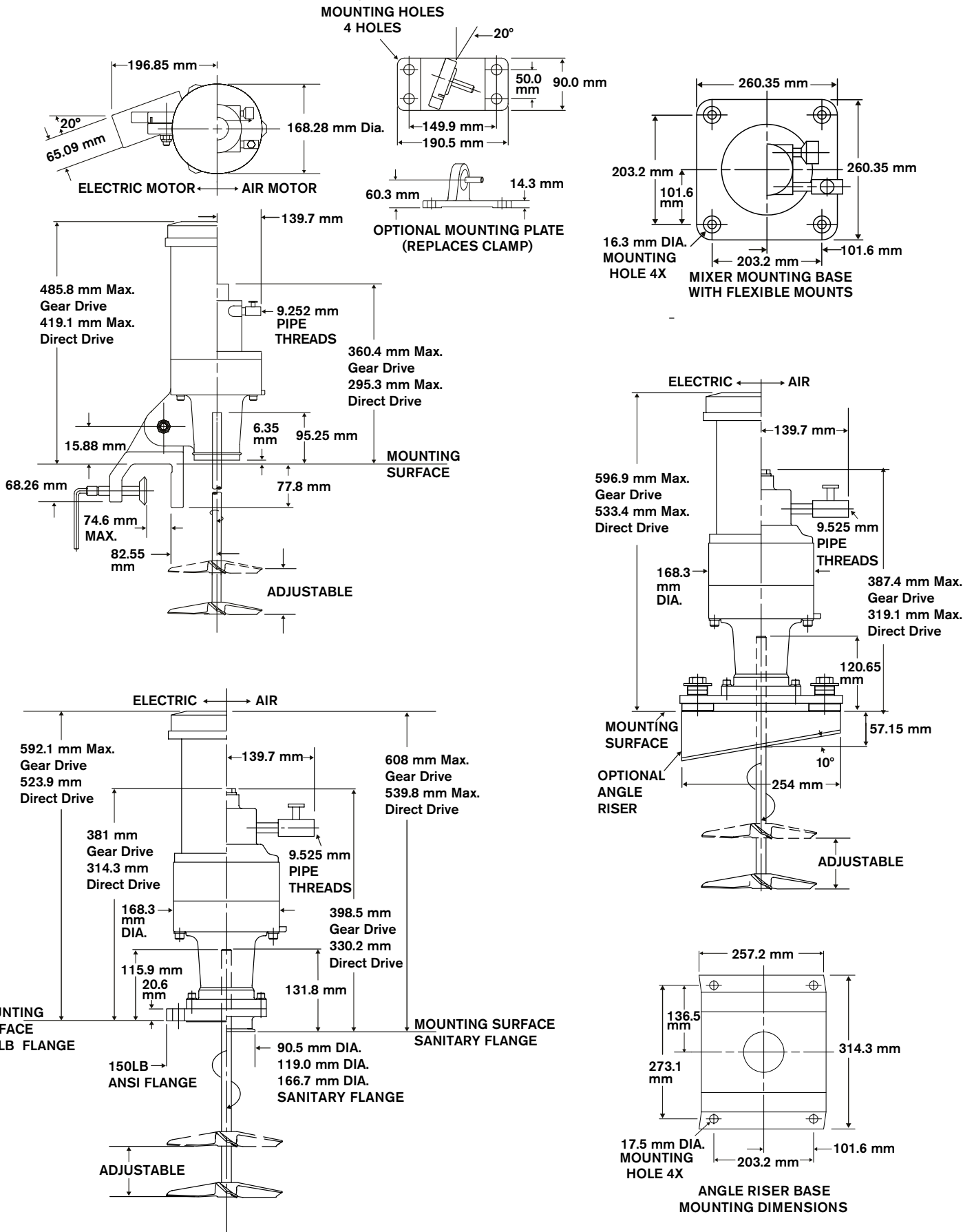
- Lip Seal Option (L)
- Flange-Mount with dust/lip seal.
- Mechanical Seal Option (S)
- Single mechanical seal rated for 87 PSIG
- Single Seal: Dry running with food-grade materials
- ANSI Flange or Tri-Clamp mounting options available



## SANITARY ESH SEAL



# SPECIFICATIONS



# IMPELLER OPTIONS



**A100**  
Marine Propeller



**A310**  
High Efficiency Hydrofoil



**A200**  
Pitch Blade Turbine

\*A—Axial Flow (parallel to shaft)

## Blending Table

VOLUME (GAL)	0-25	25.1-50	50.1-100	100.1-200	200.1-500	500.1-1000	1000.1-2000	2000.1-3000	3000.1-5000
Viscosity 0 - 1 cps				EV1_25 1 (1) 3.6 A100	EV1_33 3 (1) 3.8 A100	EV5_25 2 (1) 11.2 A310	EV5_25 5 (1) 11.2 A310	EV6_33 6 (2) 11.8 A310	EV6_50 8 (2) 12.8 A310
1.1 - 100 cps		EV1_25 1 (1) 3.6 A100	EV1_25 2 (1) 3.6 A100	EV1_25 3 (1) 3.6 A100	EV5_25 3 (1) 11.2 A310	EV5_25 7 (1) 11.2 A310	EV5_25 14 (1) 11.2 A310	EV6_50 16 (2) 12.8 A310	EV6_75 22 (2) 13.6 A310
100.1 - 250 cps		EV1_25 1 (1) 3.3 A100	EV1_33 2 (1) 3.8 A100	EV5_25 1 (1) 11.2 A310	EV5_25 4 (1) 11.2 A310	EV5_33 6 (1) 11.8 A310	EV6_50 11 (2) 12.8 A310	EV6_75 20 (2) 13.6 A310	
250.1 - 500 cps		EV1_25 2 (1) 3.3 A100	EV5_25 1 (1) 11.2 A310	EV5_25 2 (1) 11.2 A310	EV5_33 8 (1) 11.8 A310	EV5_50 7 (1) 12.8 A310	EV6_75 17 (2) 13.6 A310		
500.1 - 1000 cps	EV1_33 1 (1) 3.3 A100	EV5_25 1 (1) 10.0 A310	EV5_25 2 (1) 10.0 A310	EV6_33 3 (2) 11.2 A310	EV6_50 6 (2) 12.8 A310	EV6_75 10 (1) 13.6 A310			
1000.1 - 2500 cps	EV6_25 2 (1) 8.9 A100	EV6_25 3 (1) 8.9 A100	EV6_50 3 (1) 10.0 A100	EV6_75 6 (2) 10.5 A100					
2500.1 - 5000 cps	EV6_25 3 (1) 7.7 A100	EV6_50 3 (1) 10.0 A100	EV6_75 5 (2) 10.5 A100						
5000.1 - 15000 cps	EV6_50 4 (2) 6.9 A100	EV6_75 8 (2) 7.7 A100							

- Tank height to diameter ratio between 0.8 - 1.2
- Liquids with Newtonian viscosity characteristics
- S.G. difference of liquids < 0.1
- Use for mild blending applications
- Maximum density 1.10 g/cm<sup>3</sup>
- Maximum viscosity ratio - 10:1 (>250cP)
- Mixer in operation during filling and emptying

## TYPICAL APPLICATIONS



Mining & Minerals



Food & Beverages



Water & Waste Water



Pharmaceutical



Chemical

# SPXFLOW®

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For more information, visit [www.spxflow.com](http://www.spxflow.com).

135 Mt. Read Blvd.

Rochester, NY 14611

P: +1 (888) 649-2378 (MIX-BEST) (US and Canada) or +1 (585) 436-5550

E: [lightnin@spxflow.com](mailto:lightnin@spxflow.com) | [www.spxflow.com/lightnin](http://www.spxflow.com/lightnin)