

PRODUCT BULLETIN MODEL NOVO 2" SPHE

The American-Marsh 2" SPHE, wet prime centrifugal pump is a high pressure discharge pump fully meeting MIL-PRF-52109G specifications. The intended use of this pump is for moving potable water in any location on the battlefield. The unit will prime itself and pull a 24 foot vertical lift ensuring smooth operation. Due to the integral suction check valve, the 2" SPHE pump can prime and re-prime automatically.

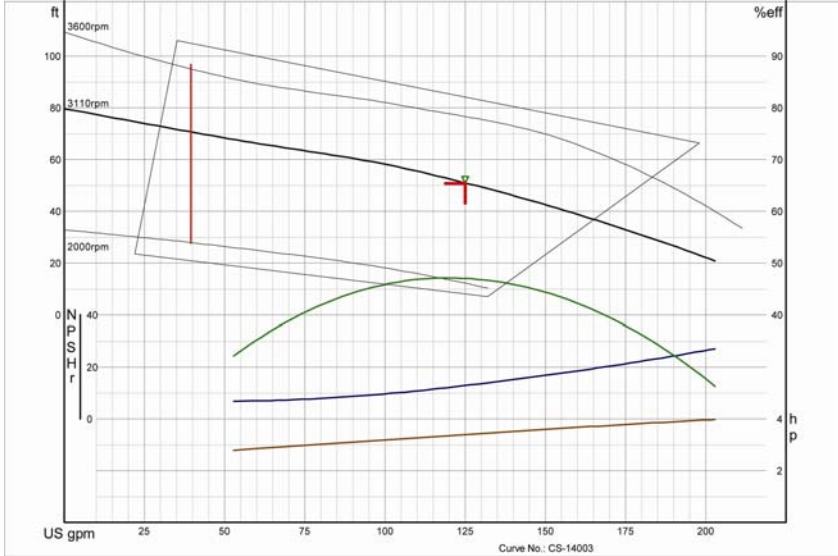


The heart of the system, the fluid end, is based off of the time tested NOVO 2" SPHE process pump product line. This pump was originally designed to pump a wide variety of demanding process fluids. Due to these demanding applications, the casing, impeller and rear cover feature heavy wall construction extending the life of the parts. The rear cover is engineered to maximize seal life by self venting gases and ensuring a consistent and debris free stream of clean fluid for lubrication.

Features

- Fully automatic priming up to 25 foot (7.6 m) based on atmospheric conditions. Maximum heads to 50 Feet (15 m) and flows to 125 GPM (15 m³/hr).
- Fully meets MIL-PRF-52109G, Type II, Size 2 requirements.
- Fluid end available in high tensile strength cast iron.
- Pump has a top discharge for ease in venting casing and in connecting discharge manifold.
- Solids handling suction flapper valve.
- High pressure mechanical seal with carbon vs. silicon carbide faces. Elastomers are of buna-nitrile construction rated for potable water services.
- Compact pump assembly mounted on a heavy duty, tubular steel base assembly.

TACOM 125 GPM WATER PUMP ASSEMBLY



American-Marsh Pumps
 08/20/05
 Model: 125 GPM Water Pump
 Size: 2x2-5 SPHE
 Speed: 3110 rpm

Materials

- Pump Casing**
Cast, High Strength Cast Iron
- Rear Cover**
Cast, High Strength Cast Iron
- Impeller**
Cast, High Strength Cast Iron
- Shaft**
1018 Carbon Steel with 316 Stainless Steel Sleeve
- Suction Flapper Valve**
High Buna-Nitrile Rubber
- Mechanical Seal Construction**
Carbon vs. Silicon Carbide w/Buna-Nitrile Elastomers
- Base**
Fabricated, High Strength, Carbon Steel

Pump Specifications

- Manufacturer & Model Number**
American-Marsh Pumps, Model 2" SPHE
- Rated Duty Point**
125 GPM @ 50 Feet (28 M³/Hr @ 15 meters)
- Maximum Operating Speed**
3600 RPM
- Maximum Operating Temperature**
+125°F (100°C)
- Maximum Casing Pressure**
175 PSI (12 bar) @ +125°F (52°C)
- Maximum Suction Pressure**
50 PSI (4 bar)
- Pipe Connections**
Suction: 2" (50 mm) NPT
Discharge: 2" (50 mm) NPT
- Priming Port**
1" (25 mm)
- Solids Handling**
1/4" (6 mm)

Engine Specifications

- Manufacturer & Model Number**
Lombardini, Model 15LD315
- Horsepower (Continuous)**
5.6 HP (4.1 KW) @ 3600 rpm
- Displacement**
21.35 in³ (0.35 L)
- Aspiration**
Natural
- Number of Cylinders**
1
- Bore**
3.07 in (78 mm)
- Stroke**
2.60 in (66 mm)
- Exhaust Noise Emission**
100 dBa
- Starting Method**
Re-coil