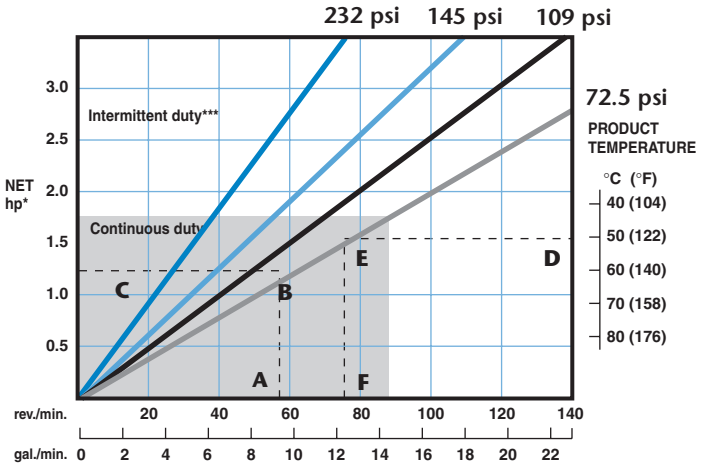
SPX32
High Performance Hose Pumps

Features and Benefits

- *Can run dry continuously*
- *Most suitable for handling shear sensitive products*
- *Accurate (±1%) dosing (metering) capabilities*
- *Smooth liquid passage without valves, dead corners, or glands*
- *The material to be pumped does not contact mechanical parts or seals*
- *Easy maintenance, low cost, short down time*
- *Only one wearing part: the hose*
- *Easily and completely cleanable*
- *Easily adjustable and reversible rotation*
- *Suitable for high viscosity and densities*
- *No metal contact or valves*
- *Safe for use in explosive environments*
- *No internal back flow (slip)*
- *Designed to pump liquids containing particles (abrasion is no restriction)*
- *Self priming to 95% vacuum*
- *Patented direct coupled design with rotor-supporting twin-bearing hub integrated into the pumphead and unique buffer zone to provide protective barrier between pumphead and gearmotor*
- *Ultra compact footprint with flanged helical gearing: no coupling or drive alignment required*
- *Optional integral VFD with user friendly speed pot and fwd/off/rev push buttons*
- *Two year comprehensive warranty*

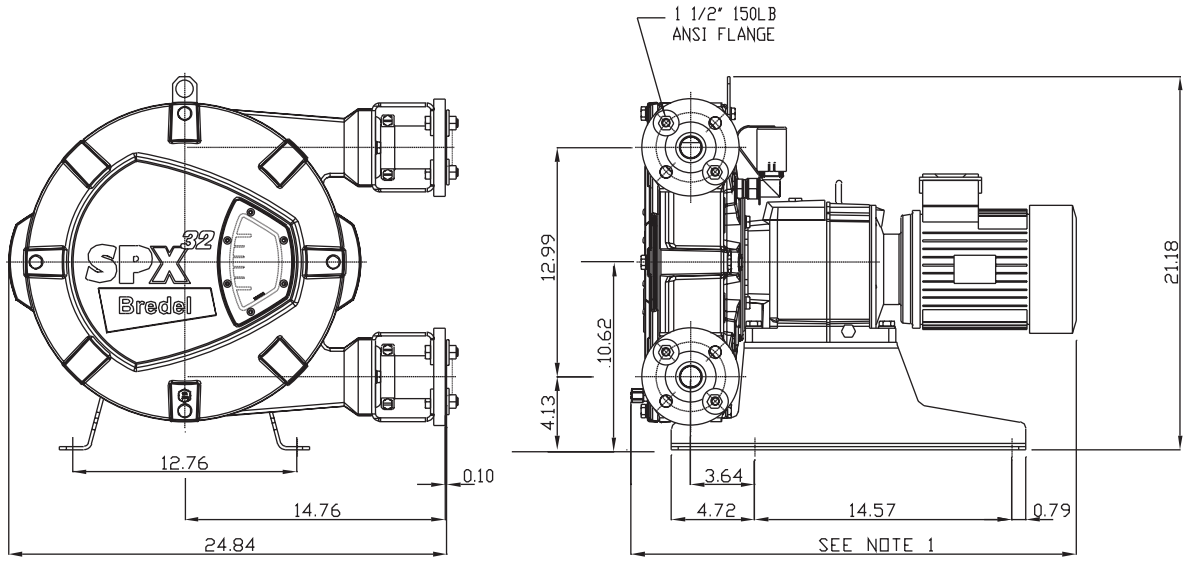
Performance Chart



How to calculate speed/horsepower

A Flow required, indicates pump speed
B Calculated discharge pressure
C Horsepower required
D Fluid temperature
E Calculated discharge pressure
F Maximum recommended pump speed**

* Minimum starting torque 3,000 in-lbs based on starting unloaded at atmospheric discharge pressure. Starting torque can be 2-3X running torque if starting under the load of higher discharge pressures. ** For maximum hose life, speed point (A) should be lower than temperature adjusted speed point (F). See example points (A) thru (F). ***Intermittent duty = 2 hrs max continuous running, 1 hr stop before restart.



Notes:

1. Dimension is dependent on selection of gearbox and/or motor
2. All dimensions in inches

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Technical Specifications

Displacement: 0.165 gal/rev

Supply: 115/230 single phase or 230/460 three phase or 575V three phase

Operating Speeds: up to 87 rpm continuous up to 120 rpm intermittent

Fluid Temperature Range*: -4° to 175°F

Ambient Temperature Range:** -4° to 113°F

Hose Lubricant Required: 0.8 gallons

Flow Range: up to 20 gpm

Discharge Pressure: up to 232 psi

Suction Pressure: 28ft. lift to 48 psi

Available Hose Materials: Natural Rubber, BUNA N, EPDM, Hypalon

Available Insert Materials: Polypropylene, 316SS, PVDF, PVC

Fittings: 1.5" 150# Flange

Optional High Level Hose Leak Sensor: NO or NC: 1A max, 250V max, 50VA max

When installing, allow min 40" linear clearance from ports to facilitate hose changing

Materials of Construction

Pumphead: Cast Iron
Bearing Hub: Cast Iron
Shims: 316SS
Rotor: Cast iron
Shoes: Aluminum or Epoxy
Cover: Cast Iron

Flanges and Flange Brackets: Galvanized steel or 316SS

Support Frame: Galvanized steel or 316SS

Hardware: Zinc plated steel or 316SS

Hose Clamps: Galvanized Steel or 316SS

Shaft: Alloy steel

Seals: Buna

*Consult Watson-Marlow Bredel for lower or higher temperature operation

**Allowable ambient temperature is based on pump capabilities and may be further limited by gearmotor ambient capabilities

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