

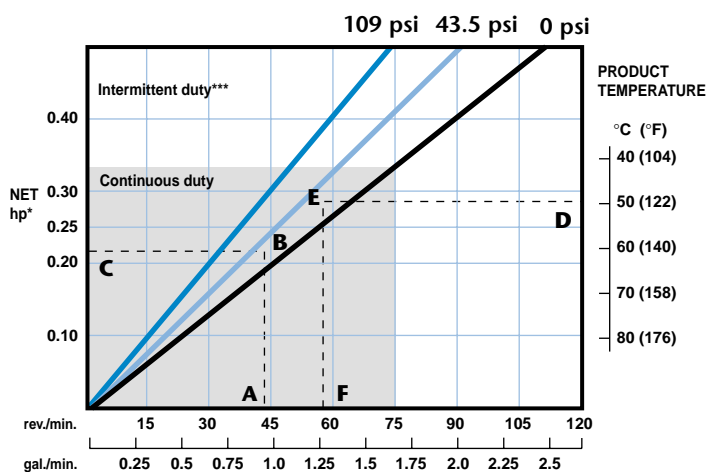


SPX15 High Performance Hose Pumps

Features and Benefits

- Can run dry continuously
- Most suitable for handling shear sensitive products
- Accurate ($\pm 1\%$) dosing (metering) capabilities
- Smooth liquid passage without valves, dead corners or glands
- The material to be pumped does not contact mechanical parts or seals
- Choice of high or low pressure rotor greatly enhances hose life
- 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
- Two year comprehensive warranty

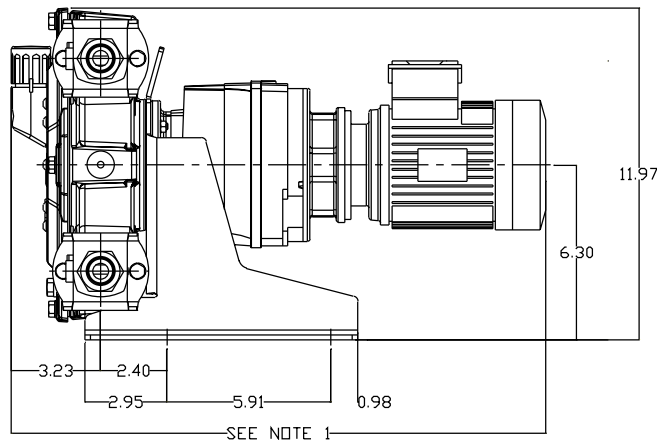
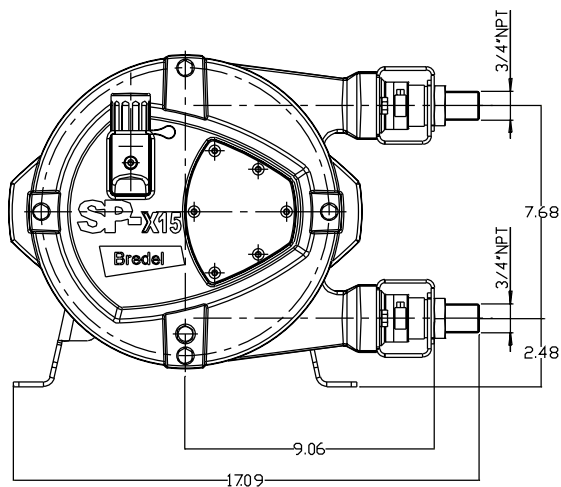
Performance Chart



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 500 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: 0.022 gal/rev
Supply: 115/230 single phase or 230/460 three phase or 575 three phase
Operating Speeds: up to 75 rpm continuous
up to 105 rpm intermittent
Fluid Temperature Range*: -4° to 175°F
Ambient Temperature Range:** -4° to 113°F
Hose Lubricant Required: 0.13 gallons
Flow Range: up to 2.3 gpm
Discharge Pressure: up to 110 psi
Suction Pressure: 28 ft. lift to 30 psi
Available Hose Materials: Natural Rubber, BUNA N, EPDM
Available Insert Materials: Polypropylene, 316SS
Fittings: 3/4" male NPT, optional 3/4" 150# Flange
Optional High Level Hose Leak Sensor: NO or NC:
1A max, 250V max, 50 VA max

Materials of Construction

Pumphead: Cast Iron
Rotor with Integral Shoes: Cast Iron
Bearing Hub: Cast Iron
Cover: Cast Iron
Brackets: 316SS
Support Frame: Galvanized Steel or 316SS
Hardware: 316SS
Hose Clamps: 304SS
Shaft: Alloy Steel
Seals: Buna and EPDM
Pumphead Weight: 50 lbs
Estimated Assembly Weight: 105 lbs

*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

The information contained in this document is believed to be correct, but Watson-Marlow Bredel Pumps accepts no liability for any errors it contains, and reserves the right to alter specifications without notice.

Watson-Marlow Bredel Pumps

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