

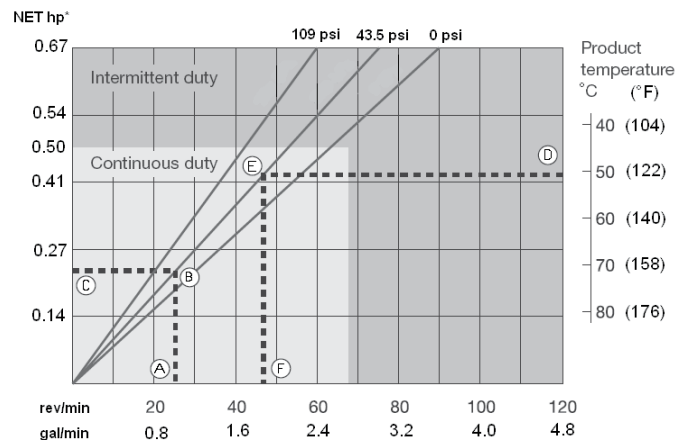


SPX20 High Performance Hose Pumps

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

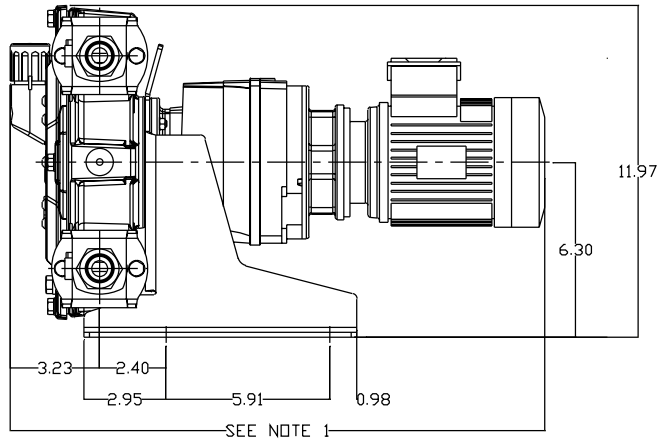
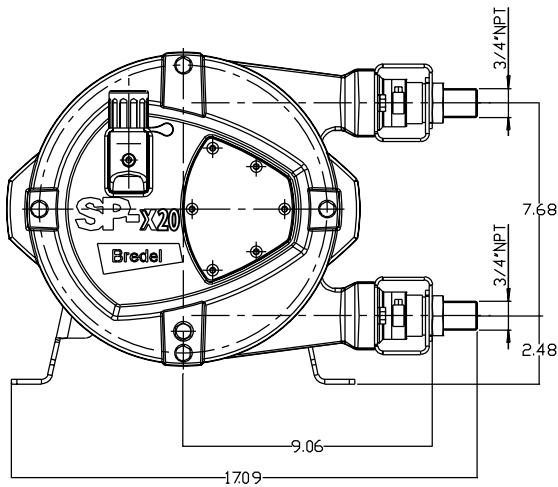
Performance Chart



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

SPX20

High Performance Hose Pumps

Technical Specifications

- Displacement:** 0.04 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 4.2 gpm
- Discharge Pressure:** up to 110 psi
- Suction Pressure:** 28 ft. lift to 30 psi
- Available Hose Materials:** Natural Rubber, BUNA N, Hypalon
- Available Insert Materials:** 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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