

## Model G8T-120 Rotary Gear Pump

Surex rotary gear pumps designed for foam extinguishing system. They are Self-Priming and can pump Multiple Viscosities of Foam or Water. This versatile design is suitable for Electric, PTO, Diesel/Gasoline Engine, Water Driven or Hydraulic drive motors.

### Design Features :

- Timing Gears Synchronize the Two Pumping Rotors.
- Timing Gears Allow for DRY Running Without Damage.
- No Rotor Contact Allows for Pumping Foam or Water.
- Water Can Be Used for: Calibration, Testing and Training.

### Technical Data :

Max Pressure: 2.0MPa | 20bar

Max Speed: 1800RPM

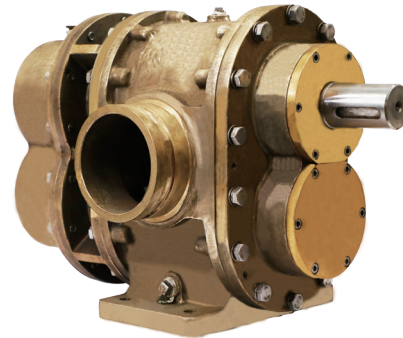
Viscosity : 9500cp max.[1]

Connection Diameter: DN100(114.3 O.D.)、4"

Connection Type: Groove、Thread、Flange

Approvals: FM

[1]Brookfield viscometer, spindle #4, speed 30rpm.



### Materials :

Pump body: Red Brass, ASTM B584 C83600

Rotor: Stainless Steel 17-4PH

Red Brass, ASTM B584 C83600

Liners: Red Brass, ASTM B584 C83600

Front Cover: Red Brass, ASTM B584 C83600

Back Cover: Red Brass ASTM B584 C83600

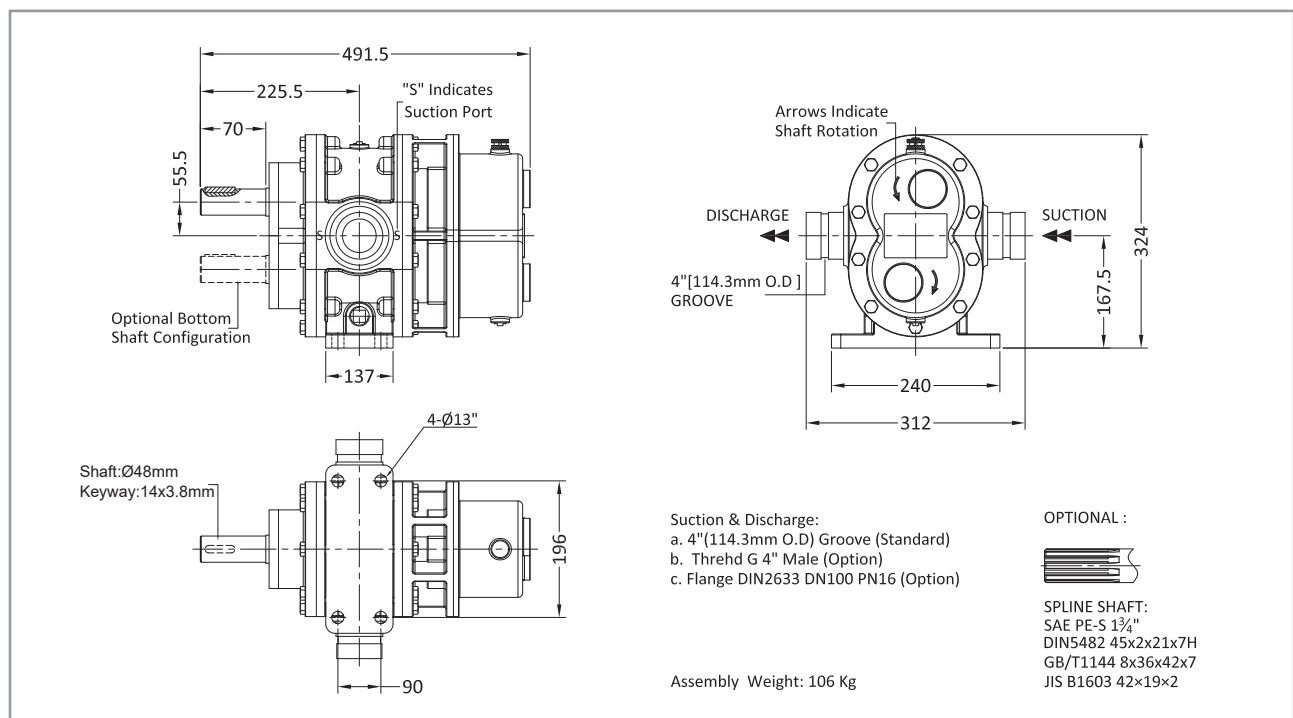
Timing Gear: Alloy Steel 20CrMnTi (ASTM A29M)

Lip Seal : FPM

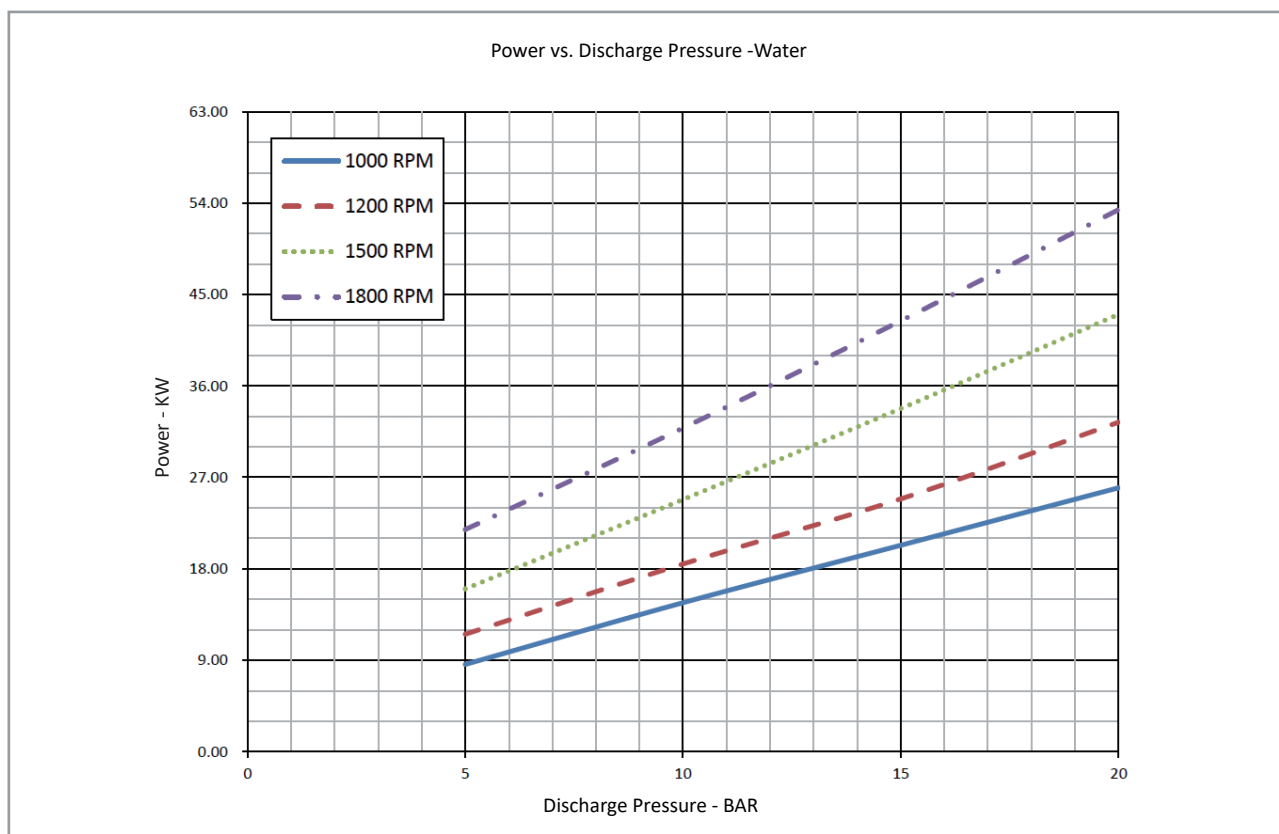
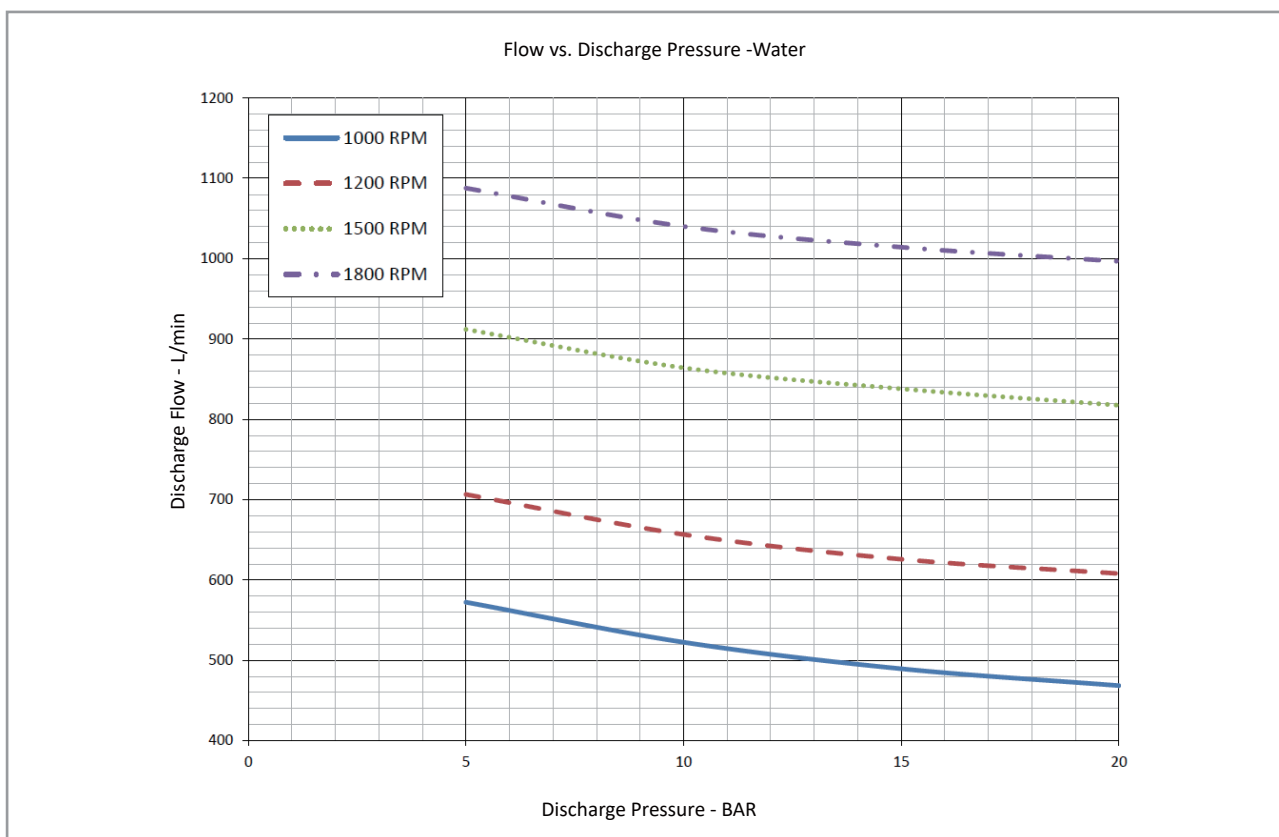
### Performance -Water

| Foam Pump | 1000rpm |       |        | 1200rpm |       |        | 1500rpm |       |        | 1800rpm |       |        |
|-----------|---------|-------|--------|---------|-------|--------|---------|-------|--------|---------|-------|--------|
| Pressure  | Flow    | Power | Torque | Flow    | Power | Torque | Flow    | Power | Torque | Flow    | Power | Torque |
| bar       | L/min   | kw    | N.m    | L/min   | kw    | N.m    | L/min   | kw    | N.m    | L/min   | kw    | N.m    |
| 5.0       | 572     | 9     | 82     | 707     | 12    | 92     | 912     | 16    | 102    | 1088    | 22    | 116    |
| 6.9       | 552     | 11    | 105    | 686     | 14    | 113    | 892     | 19    | 123    | 1068    | 26    | 136    |
| 10.3      | 520     | 15    | 143    | 655     | 19    | 149    | 864     | 25    | 162    | 1040    | 33    | 173    |
| 13.8      | 496     | 19    | 181    | 632     | 23    | 186    | 843     | 32    | 202    | 1019    | 40    | 211    |
| 17.2      | 478     | 23    | 218    | 616     | 28    | 225    | 827     | 38    | 242    | 1004    | 47    | 250    |
| 20.0      | 469     | 26    | 248    | 608     | 32    | 258    | 818     | 43    | 274    | 997     | 53    | 283    |

### Dimensions



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- The pump performance for foam concentrate, please contact Surex, or down load from [www.surexfoam.com](http://www.surexfoam.com).