Benefits and Features:

Longer Life: Proprietary High Vanadium Stainless Steels and other best-in-class materials are used to dramatically increase the wear and corrosion resistance of the pump.

Uniform Accuracy: The application of new design criteria insure that all the internal components wear uniformly over the life of the pump—no stream will lose its accuracy before any other.

Less Bubble Formation: The use of special Parker fittings, provide a constant port size from the pump, through the fitting and into the tubing, with a special O-ring seal to eliminate stagnation and air drawn bubble formation.

Reduced Bacterial Growth: The optimized internal porting eliminates fluid stagnation points where bacterial growth happens.

Easier Maintenance: Our registered deck design, removable seals, and optional color coded fittings and hoses, redefine “quick-n-easy” pump assembly.

Value: Long life, ease of maintenance, and improved product quality convert the affordable price into a great value!

Applications:

Spin finish pumps are used to meter finish solutions in a precise, pulseless flow to be applied on man-made fibers such as polyester, nylon, polypropylene, acetate and rayon. Spin finish metering pumps are available in a wide range of capacities and number of discharge ports and are suitable for most man-made fiber finishing solutions.

Specifications:

- **Pump Type:** Rotary external spur gear
- **Rotation:** Clockwise
- **Operating Speed:** 10-100 rpm recommended. Contact factory for specific recommendation based on your application conditions
- **Temperature:** To 212°F (100°C)
- **Flow Rates:**
  - 0.03 to 1.2 cc/rev/port
  - 2 to 12 discharge ports standard
- **Inlet:** 7 psi maximum, flooded suction required. Differential pressure should be kept near zero for water emulsion finishes
- **Viscosity:** 1 to 100 cp
- **Porting:** Plates port to same side. Parker Prestolok fitting adapters supplied for flexible tubing. Inlet - 6mm OD, Outlet - 4mm OD
- **Materials of Construction:** Proprietary High Vanadium Stainless Steel provides best-in-class corrosion and wear resistance. Seal and binder screws, alloy steel
- **Seal:** Stainless steel spring energized Nitrile lip seal standard

Typical Spin Finish Pump Installation

[Diagram of Spin Finish Gear Pump System]
Standard Spin Finish Pump Models (other spin finish pump models available upon request)

<table>
<thead>
<tr>
<th>PUMP TYPE</th>
<th>Number of streams</th>
<th>BFC-6250 2-stream</th>
<th>BFF-6251 4-stream</th>
<th>BFI-6252 6-stream</th>
<th>BFL-6253 8-stream</th>
<th>BFO-6254 10-stream</th>
<th>BFR-6255 12-stream</th>
</tr>
</thead>
<tbody>
<tr>
<td>cc/rev</td>
<td>“Y” inches/mm</td>
<td>“X” inches/mm</td>
<td>“X” inches/mm</td>
<td>“X” inches/mm</td>
<td>“X” inches/mm</td>
<td>“X” inches/mm</td>
<td>“X” inches/mm</td>
</tr>
<tr>
<td>0.03</td>
<td>0.669/17.0</td>
<td>1.50/38.1</td>
<td>2.17/55.1</td>
<td>2.84/72.1</td>
<td>3.51/89.1</td>
<td>4.18/106.1</td>
<td>4.85/123.1</td>
</tr>
<tr>
<td>0.05</td>
<td>0.669/17.0</td>
<td>1.50/38.1</td>
<td>2.17/55.1</td>
<td>2.84/72.1</td>
<td>3.51/89.1</td>
<td>4.18/106.1</td>
<td>4.85/123.1</td>
</tr>
<tr>
<td>0.08</td>
<td>0.698/17.5</td>
<td>1.52/38.6</td>
<td>2.21/56.1</td>
<td>2.90/73.6</td>
<td>3.59/91.1</td>
<td>4.28/108.6</td>
<td>4.96/126.1</td>
</tr>
<tr>
<td>0.16</td>
<td>0.748/19.0</td>
<td>1.58/40.1</td>
<td>2.33/59.1</td>
<td>3.07/78.1</td>
<td>3.82/97.1</td>
<td>4.57/116.1</td>
<td>5.32/135.1</td>
</tr>
<tr>
<td>0.3</td>
<td>0.748/19.0</td>
<td>1.58/40.1</td>
<td>2.33/59.1</td>
<td>3.07/78.1</td>
<td>3.82/97.1</td>
<td>4.57/116.1</td>
<td>5.32/135.1</td>
</tr>
<tr>
<td>0.6</td>
<td>0.846/21.5</td>
<td>1.68/42.6</td>
<td>2.52/64.1</td>
<td>3.37/85.6</td>
<td>4.22/107.1</td>
<td>5.06/128.6</td>
<td>5.91/150.1</td>
</tr>
<tr>
<td>1.2</td>
<td>1.063/27.0</td>
<td>1.89/48.1</td>
<td>2.96/75.1</td>
<td>4.02/102.1</td>
<td>5.08/129.1</td>
<td>——</td>
<td>——</td>
</tr>
</tbody>
</table>

SF-6000 Spin Finish Pump Motor Drive Assembly

ISO 9001: 2000 Registered

Zenith Pumps
1710 Airport Road
Monroe, NC 28110
Phone: 704-289-6511 • Fax: 704-289-9273
www.zenithpumps.com

© Copyright 2002 Zenith Pumps Spin Finish EDS 10/04