
The gear pumps help optimize the process, so the extrusion line produces optimal quality with the highest throughput possible. The gear pump has a rheologically optimized inlet and outlet geometry to guarantee a very controlled transport of the material. Temperature and pressure sensor ports are included in the pump housing.

**Features**

**Type:**
- **EP-SE-EO**
  - **Application:** Shear sensitive plastics, e.g. PMMA, PET
  - **Feature:** Smaller flow channels to reduce the residence time
  - **Cooled sealing system**

**Type:**
- **EP-SF-EO**
  - **Application:** Provides the same advantages as the EP-SE-EO model with the additional benefit of heating the pump with a fluid

**Benefits**

- Reduction of stress on the extruder by means of shifting the job of building pressure to the gear pump
- Reducing extruder head pressure may yield increased throughput rate leading to maximized production efficiency
  - Elimination of output variations and pressure pulsations
  - Improves product quality
  - Reduces scrap and product defects
  - Saves polymer usage
- Allows the use of up to 100% regrind in production with consistent metering
- Improvement of the dimensional accuracy in the production of sheets and profiles
- Optimizes the surface and optical quality in the production of films, sheets and profiles
- Increased product quality in homogeneity and pellet size in compounding applications

**Technical Information**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>33 - 3201</td>
</tr>
<tr>
<td>Throughput*</td>
<td>7 – 12,700 kg / hr (15 – 28,000 lbs / hr)</td>
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<tr>
<td>Specific volume</td>
<td>33 – 3201 cm³ / rev (2.02 – 195.3 in³ / rev)</td>
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<tr>
<td>Viscosity</td>
<td>200 – 30,000 Pas</td>
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<tr>
<td>Temperature</td>
<td>Up to 350°C (662°F)</td>
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<tr>
<td>Heating</td>
<td>Electric or Fluid</td>
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<tr>
<td>Pump outlet</td>
<td>max. 350 bar (5,076 psi)</td>
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<tr>
<td>Differential pressure</td>
<td>max. 250 bar (3,626 psi)</td>
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</tbody>
</table>

* Higher or lower throughputs on request.