extrex® PFS
Gear pump for hot-melt extrusion processes (HME)

The extrex® PFS pumps are specially designed for applications in the pharmaceutical industries. It requires specific design characteristics; high discharge pressure capability, constant throughput, gentle conveying and narrow temperature ranges. In such an environment, the proven extrex® gear pumps unfold their full potential.

Benefits:
- Very good self-cleaning properties
- Precisely metered flow of product ensures consistent pellet size and quality
- Screw pressure pulsations are eliminated or minimized even at high differential pressures
- Efficient increase in discharge pressure while relieving extruder of build-up pressures
- Lower specific energy for the overall system
- Improved quality of the finished product due to lower overall melt temperature
- Essential for the production of micro-pellets
- Compatible with all extruders and reactor vessels

SIMPLY BETTER PELLETS.
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Application areas:

- Production of micro-pellets to avoid milling
- High-viscosity carrier/active ingredient combinations
- Co-extrusion applications for uniform layer thicknesses
- Process monitoring by means of pressure sensors and temperature sensors
- For extrusion from an extruder or reactor vessel

<table>
<thead>
<tr>
<th>Technical Data</th>
<th>extrex® 20 GP</th>
<th>extrex® 21 GP</th>
<th>extrex® 22 GP</th>
<th>extrex® 28 GP</th>
<th>extrex® 35 GP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specific Volume [cm³/U]:</td>
<td>1.3</td>
<td>2.8</td>
<td>4.7</td>
<td>10.2</td>
<td>25.6</td>
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<tr>
<td>Differential Pressure Δp:</td>
<td></td>
<td></td>
<td>max. 250 bar</td>
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<tr>
<td>Temperature range:</td>
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<td></td>
<td>30° to 200°C</td>
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<tr>
<td>Viscosity:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>to 30.000 Pas</td>
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