EXTRU III
Extrusion gear pump
EXTRU III

Compact and compatible

EXTRU III pumps are of compact design and impress through their extraordinary compatibility. Their light construction and compact design allow simple installation, thus saving time and valuable floor space. The EXTRU III can be operated with viscosities of up to 30,000 Pas., temperatures of 350°C, suction pressures of up to 120 bar and differential pressures of up to 250 bar.

The standard EXTRU III pump is delivered with aluminium-bronze Visco-seals. This dynamic shaft seal is designed especially for high viscosities and suction pressures and can be provided with cooling if required.

Because of the efficient build-up of pressure in comparison to extruders, the product can be conveyed in a very gentle manner with the WITTE EXTRU III gear pump, as comparatively little energy or heat is transferred to the polymer. They allow an extremely precise and almost pulsation-free conveyance of polymer, so that fluctuations in conveyance by the extruder will be compensated for. The friction bearings are provided with special lubrication pockets and channels to ensure long-term, reliable operation.

Technical Features

<table>
<thead>
<tr>
<th>Housing:</th>
<th>Heat resistant carbon steel optional: coating</th>
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</thead>
<tbody>
<tr>
<td>Cover:</td>
<td>Carbon steel</td>
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<tr>
<td>Gears:</td>
<td>Nitrited tool steel, optional: coating, herringbone gearing</td>
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<tr>
<td>Friction Bearings:</td>
<td>Tool steel, optional: coating</td>
</tr>
<tr>
<td>Shaft Seal:</td>
<td>Viscoseal, optional: cooling element for viscoseal</td>
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<tr>
<td>Heating Systems:</td>
<td>Electrically, by means of heating cartridges</td>
</tr>
</tbody>
</table>

Application Examples

| Polymers: | PS, PET, PC, PA, PMMA, HDPE, LDPE, LLDPE, PP, Polysulfone, PEEK, etc. |
Pump Sizes
From 22/22 (4.7 cm³/rev) up to 180/180 (3.200 cm³/rev)

Operating Parameters

Viscosity: Up to 30.000 Pas
Temperature: Up to 350 °C (662 °F)
Suction Pressure: Up to max. 120 bar (1.740 psig)
Differential Pressure: Up to max. 250 bar (3.626 psig)

The values listed are maximum values and must not coincide under certain circumstances. We will be pleased to offer you special materials and different designs upon request.

Technical Features

| Size (axial distance width) | Spec. displacement volume (cm³/rev) | Capacity (l/h) *
|----------------------------|--------------------------------------|----------------
| 1 (22/22)                 | 4.7                                  | 3-56
| 2 (28/28)                 | 10.2                                 | 6-92
| 3 (36/36)                 | 25.6                                 | 15-230
| 4 (45/45)                 | 46.3                                 | 28-417
| 5 (56/56)                 | 92.6                                 | 55-722

* (Depending on the fluid characteristics and operating conditions)