

BKG® PolyNeo™ EP-SF-EO

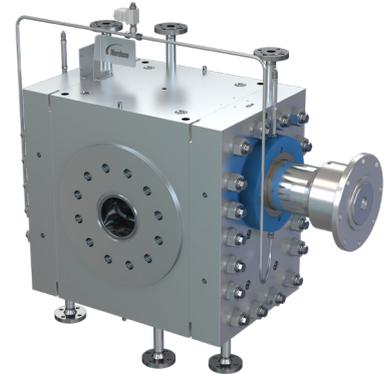
Extrusion Polymerization Pump for High Throughputs

NEW

BKG® PolyNeo™ Melt Pumps type EP-SF-EO are used for high throughputs in polymerization and extrusion processes.

The melt pump helps optimize the process to produce optimal quality with the highest throughput possible.

It features a rheologically optimized inlet and outlet geometry to ensure a very controlled transport of the material. Temperature and pressure sensor ports are included in the pump housing.



Features

Type:	EP-SF-EO
Application:	All standard polymers
Feature:	Cooled sealing system (water or air) and optional gland packing system
Material:	Different materials for housing, bearings, and gears based on request

Benefits

- **50% reduction in melt temperature increase:** Significantly lower melt temperatures due to reduced shear in the material and more efficient pressure build-up.
- **Advanced oil flow channel design:** Smooth polymer processing with a more efficient melt temperature compared to conventional designs.
- **10% improved heat dissipation:** Enhanced heat dissipation of the polymer, enabled by optimized design.
- Integrated bearing design for easy maintenance and replacement of spare parts.
- Optimized connection ensuring minimal residence time and optimal polymer flow velocity.

Technical Information

Size	6100 - 12100
Throughput	14,000 kg/hr – 20,000 kg/hr (30,864.71 – 44,092.45 lbs/hr)*
Specific volume	6,100 – 12,100 cm ³ /rev (372.24 – 738.39 in ³ / rev)*
Viscosity	150 – 15,000 Pas*
Temperature	Up to 330°C (626°F)*
Heating	Fluid
Pump outlet	max. 350 bar (5,076 psi)
Differential pressure	max. 250 bar (3,626 psi)

* Higher/lower throughputs, specific volumes, viscosities or temperatures upon request.

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