

BKG® BlueFlow™ Gear Pump

MHDP/MJHDP

BKG gear pumps types MHDP/MJHDP are used in extrusion, compounding and polymerization processes.

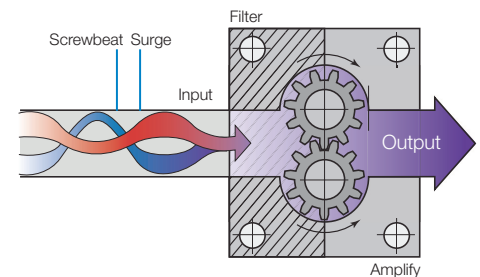
The gear pump helps optimize the process, so the extrusion line produces optimal quality with the highest throughput possible. The gear pump has a rheologically optimized in- and outlet geometry to guarantee a very controlled transport of material. The precise design of the gear pump transports the medium consistently and conveys a specific and repeatable amount of polymer melt to the outlet side of the pump.



Features

Type: **MHDP**
Application: Standard polymers
Feature: Process-specific sealing systems

Type: **MJHDP**
Application: Has the same features as the MHDP-Type, with the additional advantage of fluid heating



Benefits

- High pressure pump up to 689 bar (10,000 psi) operating pressure
- Reduction of stress on the extruder by means of shifting the job of building pressure to the gear pump
- Increase throughput rate leading to maximized production efficiency
- Elimination of output variations and pressure pulsations, thus improvement of product quality
- Raw material savings by means of tighter manufacturing tolerances
- Reduction of product rejections by means of eliminating the pulsations in the process
- Improvement of the dimensional accuracy in the production of sheets and profiles
- Optimization of the surface and optical quality in the production of films, sheets and profiles
- Increased product quality in homogeneity and pellet size in compounding applications
- Imperial US-connection geometry

Technical Information

Throughput	1.2 – 4,408 kg/h (2.6 – 9,720 lbs/h)
Specific volume	3.9 – 1,471 cm ³ /rev (0.519 – 194 in ³ /rev)
Viscosity	200 – 30,000 Pas
Temperature	up to 343°C (650°F)
Heating	Electric or Fluid
Pump outlet	max. 689 bar (10,000 psi)
Differential pressure	max. 517 bar (7,500 psi)

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