Kreyenborg Gear Pumps
Types GPE / GPX

Kreyenborg gear pumps types GPE / GPX are used in extrusion, compounding and polymerization processes. The line of Kreyenborg gear pumps can help you optimize your process so that your extrusion line achieves the highest possible quality and throughput. The design team has optimized the inlet and outlet sections to ensure gentle treatment of the material. Threaded temperature and pressure sensors fit into the pump without sharp edges by design, a sophisticated manufacturing technique which is characteristic of Kreyenborg gear pumps.

Features:

GPE-01 the “Standard Pump”
- Field of application: almost all plastics
- Viscosity: 500 up to 30,000 Pas
- Characteristic: For almost all standard plastics

GPE-02 the “PET Pump”
- Field of application: low viscosity plastics, e.g. PET, PA 6
- Viscosity: 200 up to 2,000 Pas
- Characteristic: Cooled sealing system

GPE-03 the “Residence Time Optimized Pump”
- Field of application: shear sensitive plastics, e.g. PC, PMMA, PET
- Viscosity: 200 up to 5,000 Pas
- Characteristic: Smaller flow channels to reduce the residence time

GPX the “Fluid Heated Pump”
- Field of application: Provides the same advantages as the GPE model with the additional benefit of heating the pump using a fluid

Benefits:
- 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
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**GPE-01 the “Standard Pump”**

Size: 22 – 280
Throughput: 22 – 30,000 kg/hr (48 - 66,139 lbs/hr)
Specific volume: 4.7 – 12,000 cm³/rev (0.29 – 732.3 in³/rev)
Viscosity: 500 – 30,000 Pas
Temperature: up to 450 °C (842° F)
Heating: electrical or fluid
Pump outlet: max. 350 bar (5,076 psi)
Differential pressure: max. 250 bar (3,626 psi)

**GPE-02 the “PET Pump”**

Size: 22 – 280
Throughput: 22 – 30,000 kg/hr (48.5 – 66,139 lbs/hr)
Specific volume: 4.7 – 12,000 cm³/rev (0.29 – 732.3 in³/rev)
Viscosity: 200 – 2,000 Pas
Temperature: up to 450 °C (842° F)
Heating: electrical or fluid
Pump outlet: max. 350 bar (5,076 psi)
Differential pressure: max. 250 bar (3,626 psi)

**GPE-03 the “Residence Time Optimized Pump”**

Size: 22 – 280
Throughput: 22 – 30,000 kg/hr (48.5 - 66,139 lbs/hr)
Specific volume: 4.7 – 12,000 cm³/rev (0.29 – 732.3 in³/rev)
Viscosity: 200 – 5,000 Pas
Temperature: up to 450 °C (842° F)
Heating: electrical or fluid
Pump outlet: max. 350 bar (5,076 psi)
Differential pressure: max. 250 bar (3,626 psi)