

# BKG® BlueFlow™ Gear Pump

## MP (Masterbatch Pump)

BKG BlueFlow Gear Pump types MP-SE / MP-SF are suitable for sensitive plastics and processes that require frequent product changes. The Masterbatch version allows the discharge of lubrication flow out of the gear pump, and therefore out of the process, giving you the power to control the purging of our process when necessary.



### Features

<b>Type:</b>	<b>MP-SE</b>
Application:	Sensitive plastics, e.g. PMMA, PC Frequent changes of color and product
Feature:	Removal of the bearing lubrication flow
Optional:	Forced leakage possible
<b>Type:</b>	<b>MP-SF</b>
Application:	Provides the same advantages as the MP-SE model with the additional benefit of heating the pump with a fluid

### Old vs. New

- Consistent global design
- Metric system
- Higher specific volume in a smaller housing
- Two melt immersion points inlet / outlet
- Different shaft sealings available: Air or fluid cooling, finned seal and dynamic seal

### Benefits

- Lubrication flow can be discharged to the outside during the material change by means of a pair of manual valves. The valves are designed so that they not only lock the recirculation channels in this bypass position but also clean the recirculation channels by flushing the material in them; eliminating "Black Specks" and / or degradation.
- Raw materials savings due to fast color changeovers
- Minimizes the product rejects by reducing the time between color changes
- Reduced self-cleaning time during color or material changes, thus minimizing contamination and material waste
- Increased throughput due to reduced cleaning time
- Suitable for residence time critical or thermally sensitive polymers, such as, PC or PMMA
- Suitable for optical applications

### Technical Information

Size	33 - 3201
Throughput*	7 – 12,700 kg / hr (15 – 28,000 lbs / hr)
Specific volume	33 – 3201 cm³ / rev (2.02 – 195.3 in³ / rev)
Viscosity	200 – 20,000 Pas
Temperature	Up to 350°C (662°F)
Heating	Electric or Fluid
Pump outlet	max. 350 bar (5,076 psi)
Differential pressure	max. 250 bar (3,626 psi)

\* Higher or lower throughputs on request.

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