



Vacuum Reactor Discharge Pump—— Medium And Low Pressure, Channel Heating

DLK Series Polymer Melts Gear Pump

DLK series melt gear pumps are suitable for the reaction transportation of high temperature and high viscosity polymer melts that require low output pressure and large flow, such as resin, chemical fiber and other industries. They are generally installed in the lower part of the reactor and used as a feed pump. This series of melt gear pumps have good self-priming performance and can be used for conveying and pressurizing polymer materials under vacuum reaction conditions.

The main materials that can be conveyed by the melt gear pump are:

Polymer melt

PET PBT PTT

PA6 PA66 PA12

PE LDPE LLDPE HDPE HMWPE

PP EVA PB

PB PS HIPS ABS SAN

PC PEK PMMA POM

TPU PLA PBS

Other stock solutions, solutions, glues, oligomers, prepolymers, etc. in the polymer material industry;

It can also be used to transport hot melt adhesives, asphalt, paints, adhesives, pharmaceuticals, food, grease, fuels, oils, dyes, coatings, lubricants, polyols and other materials that do not contain particulate impurities.

Technical data:

Viscosity: 1E-3 \sim 30, 000Pa•s (1 \sim 30,000,000cP)

Suction side pressure : $(-0.05 \sim -0.09 \text{MPa}) \sim 4 \text{MPa}$

Discharge side pressure : $0\sim7MPa$

Differential pressure: 5MPa

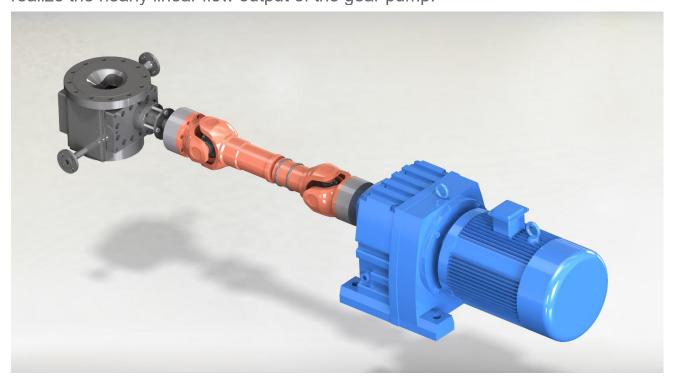
Temperature : ≤350°C

Heating: Fully Jacketed

HT medium pressure : ≤1.6MPa

Installation method

DLK series melt gear pumps are generally installed at the bottom of the reactor and are driven by a motor + reducer + universal coupling. The melt gear pump is a positive displacement forced delivery pump. The pump output flow can be adjusted by adjusting the pump speed. It is recommended Using frequency conversion speed regulation, can realize the nearly linear flow output of the gear pump.



Main structure of gear pump:

Rotor type: helical or spur gear

Heating method: Heat medium heating

Sealing structure:

- Dynamic melt seal + packing seal
- Mechanical seal
- Dynamic seal with cooling melt

■ High temperature resistant packing seal

Main structural materials of melt gear pump:

Pump casing: stainless steel/alloy steel/corrosion-resistant alloy

Gear: Nitrided steel/tool steel/stainless steel + coating/corrosion resistant alloy Bearing: tool steel/copper alloy/stainless steel + coating/corrosion resistant alloy

Pump size and Technical data

. dinp oiz		Cillical u			Max. flow	rate m³	/h	
Model	cc/r	Inlet pres. Mpa	Outl et pres	Low viscos ity materi al	Mediu m viscos ity materi al	High viscosi ty materi al	Ultra high viscosi ty materi al	Tem p
			a	<	50~	200~	>	
				50Pa. s	200P a.s	2000P a.s	2000P a.s	
DLK-5	5			0.041	0.027	0.019	0.012	
DLK-10	10			0.081	0.054	0.038	0.024	
DLK-20	20			0.162	0.108	0.076	0.049	
DLK-32	32			0.259	0.173	0.121	0.078	
DLK-50	50			0.405	0.270	0.189	0.122	
DLK-75	75			0.527	0.365	0.243	0.162	
DLK-10 0	100			0.702	0.486	0.324	0.216	
DLK-16 0	160			1.123	0.778	0.518	0.346	
DLK-20 0	200	Vacu um -0.09 ~4.0	≤10. 0	1.404	0.972	0.648	0.432	
DLK-25 0	250			1.620	1.080	0.675	0.473	
DLK-35 5	355			2.3	1.5	0.9	0.7	
DLK-50 0	500			3.2	2.2	1.2	0.9	
DLK-75 0	750			4.9	3.2	1.8	1.4	
DLK-10 00	100			5.4	3.8	2.2	1.9	
DLK-12 00	120 0			6.5	4.5	2.6	2.3	
DLK-16 00	160 0			8.6	6.0	3.5	3.0	
DLK-20 00	200			10.8	7.6	4.3	3.8	

DLK-25 00	250 0		10.8	8.1	4.7	4.1		
DLK-31	315							
50	0		13.6	10.2	6.0	5.1		
DLK-40	400		12.0	10.0	7.6	6.5		
00	0		13.0	10.8	7.6	6.5		
DLK-63	630		20	17	10	9		
00	0		20	1 7	10	3		
DLK-80	800		22	17	13	12		
00	0							
DLK-90	900		24	19	15	13		
00	0							
DLK-12	120		32	26	18	16		
000 DLK-18	180	-						
000	00		49	39	27	24		
DLK-25	250							
000	00		68	54	38	34		
DLK-38	380		100	0.0	<i>E</i> 7	E4		
000	00		103	82	57	51		
DLK-54	540		146	117	82	73		
000	00		140	117	02	73		
DLK-80	800		216	173	121	108		
000	00		210	170	121	100		
Please cor	Please consult the manufacturer for larger or smaller specifications							