

DGR-I

The DGR-I pump is a highly efficient chopper pump made entirely of acid-proof steel. It is ideal for aggressive liquids with low or high pH values, as well as liquids with a high dry matter content.

All DGR-I pumps are equipped with a knife system at the inlet to the pump, which ensures problem-free operation under conditions where many other pumps have problems with clogging.



APPLICATION EXAMPLES

- ▶ Chemical industry
- ▶ Paper industry
- ▶ Food industry
- ▶ Biogas plants
- ▶ Pumping abrasive or aggressive liquids

PUMP RPM

1,800 rpm

3,600 rpm

MATERIAL OF CONSTRUCTION

Motor housing and oil chamber	Steel AISI 316
Pump housing	Cast iron CF-8M
Pump impeller	Cast iron CF-8M
Pump shaft	AISI316
Bolts	Steel AISI 316
Sealing system	Mechanical shaft seals: silicon carbide/silicon carbide
Knife system	Steel AISI 316
Extended knife system	Steel AISI 316 (optional)
Oil type	15W-40 Vario HDX (with moisture detection)

SERVICE AND MAINTENANCE

Recommended service interval/oil change	Maximum 2,000 operating hours/minimum once a year
Motor	Lifetime lubricated bearings
Oil chamber	Periodic oil change

ELECTRICAL CABLE

Resistant to oil, abrasion and UV radiation.



Number of conductors:

SOOW 7AWG14

SOOW 10AWG10

7AWG8+3AWG16

23' (other lengths available upon request)

MONITORING FUNCTIONS

Bimetal thermal sensors 248 °F

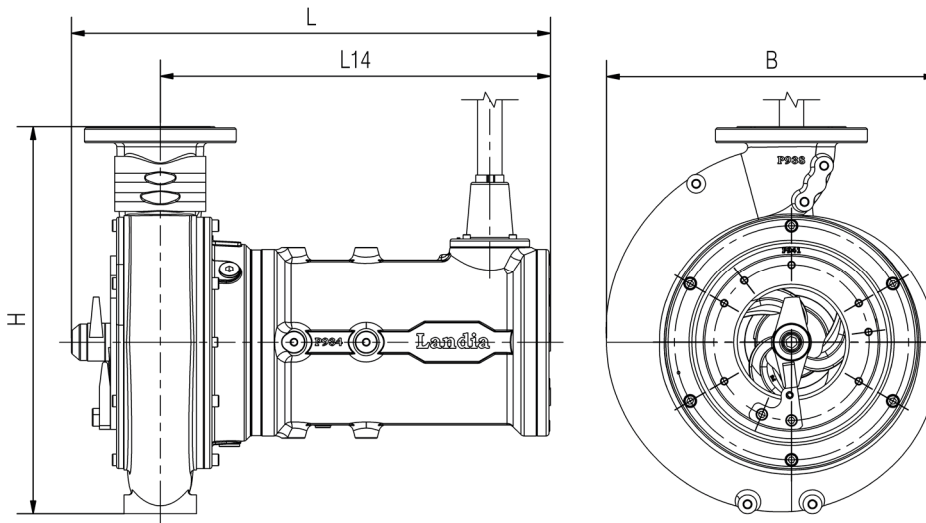
Moisture detection system (optional)

ELECTRICAL DATA

Motor type	3-phase AC motor
Nominal voltage	460 V
Minimum voltage allowed	415 V
Nominal frequency	60 Hz
Suitable for VFD-operation	Yes
Cage class	IP 68
Insulation class	F
ATEX classification	Not possible
Variable-speed drives	Inverter Duty Rated

Model	Item number	Nominal power	Motor	Full load current (460 V)	Connection method		Start current (DOL)	cos phi	Efficiency (100%)
		[HP]	[rpm]	[A]	[V]	Y/Δ	[A]		[%]
Medium pressure									
DGR-I 80 6.5 HP-1800 rpm	2324214	6.5	1735	9.0	460	Δ	66	0.78	85.0
DGR-I 105 17.9 HP-1800 rpm	2324211	17.9	1755	22.0	460	Δ	152	0.84	88.4
DGR-I 105 30.2 HP-1800 rpm	2324218	30.2	1760	36.0	460	Δ	241	0.85	90.0

OVERALL DIMENSIONS



Model	Item number	B [inch]	H [inch]	L [inch]	L14 [inch]	Weight [lb]
Medium pressure						
DGR-I 80 6.5 HP-1800 rpm	2324214	14.6	17.0	21.7	17.5	220
DGR-I 105 17.9 HP-1800 rpm	2324211	18.1	21.0	26.2	21.3	353
DGR-I 105 30.2 HP-1800 rpm	2324218	18.1	21.0	28.0	23.0	463

We reserve the right to make technical alterations.