

FL--ENC

External gears pump

With their robust design, FL--ENC gear pumps can provide a constant flow and allow working with high pressures. FL--ENC pumps can work with flows up to 25 m³/h.

The gear pump external casting combines high reliability and high-efficiency seal technology. These features together make FL--ENC pumps suitable for use in the chemical and foodstuff industries with products such as oils, fats, molasses, starch, cellulose, creams, chocolate, etc.

OPERATING PRINCIPLE

Movement of the fluid comes from the flow of the liquid between the teeth of two coupled gears produced by the external gear pumps. One of the gears (driving gear) is moved by the motor shaft, whilst the other (free gear) rotates due to the movement of the driving gear, thus allowing the product to flow.

This positive volumetric displacement pump system is very useful in dosing and transferring high viscosity products and in applications with fluids which have to be handled with temperature; FL--ENC pumps are manufactured with heating chambers on the front and rear part of the gears in order to avoid product solidification.

CHARACTERISTICS

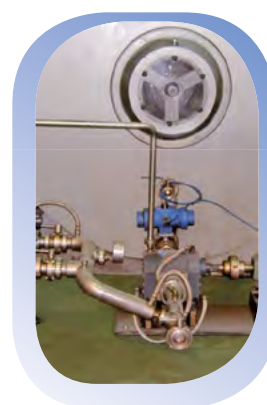
- Reversible
- DIN 2576 connections
- Platform
- High performance and capability to work with high temperatures
- Low noise level
- Long life in extreme working conditions
- High versatility and reliability
- Compact design

MATERIALS

- Pump body in nodular casting
- Gears in F-127 tempered carbon steel
- Shafts in carbon steel F-5
- Shaft covering in SS AISI 304L or 316L
- Iron platform

OPTIONS

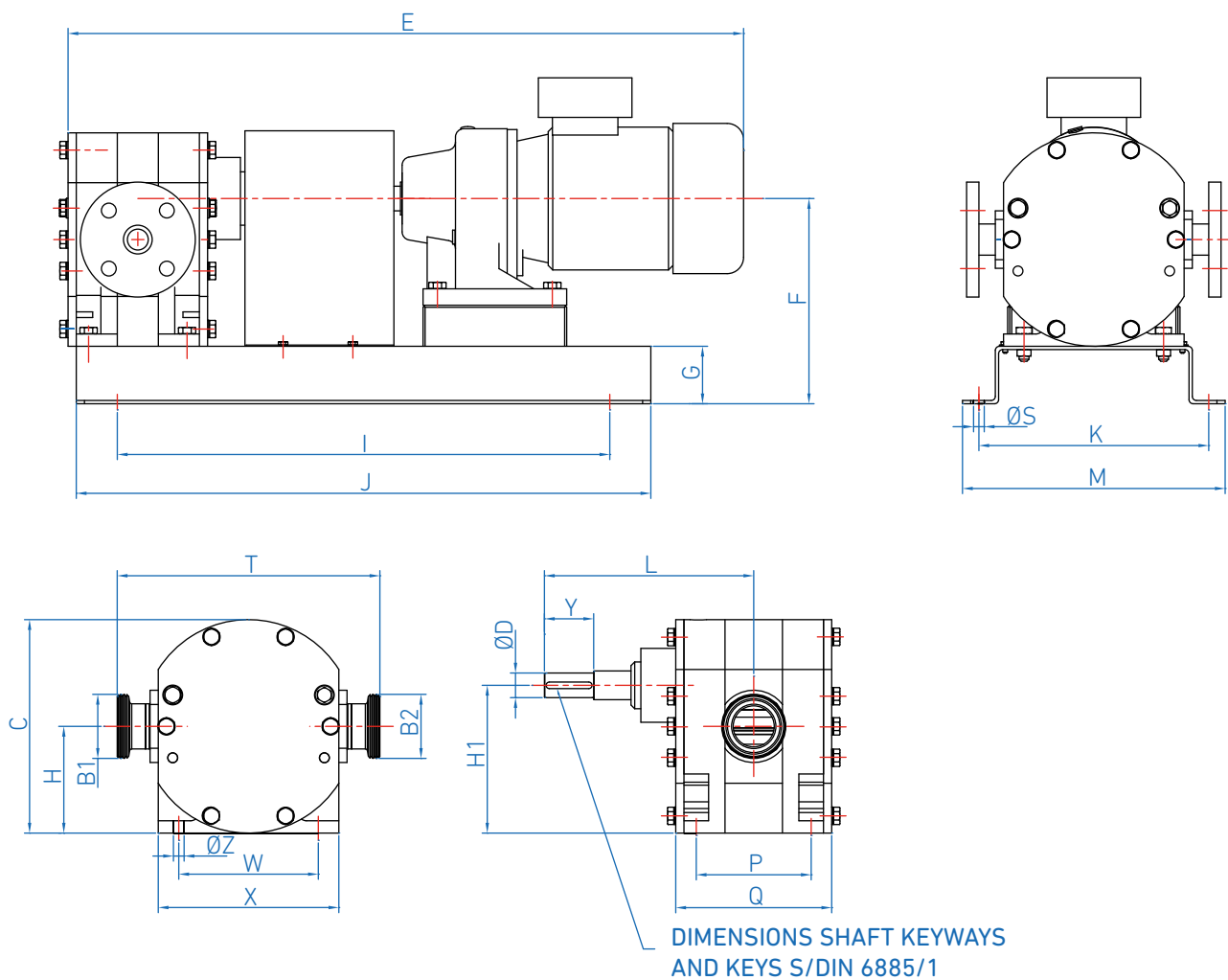
- Heating chamber through electrical elements, steam or hot water
- Pressure control device with pressure switch
- Temperature control device with temperature probes
- Iron/stainless steel trolley,
- CE control panel with start/stop device, inverter, 10 m of wire, electrical connectors
- Other connections: DIN 11851, BSP, CLAMP, RJT, etc.



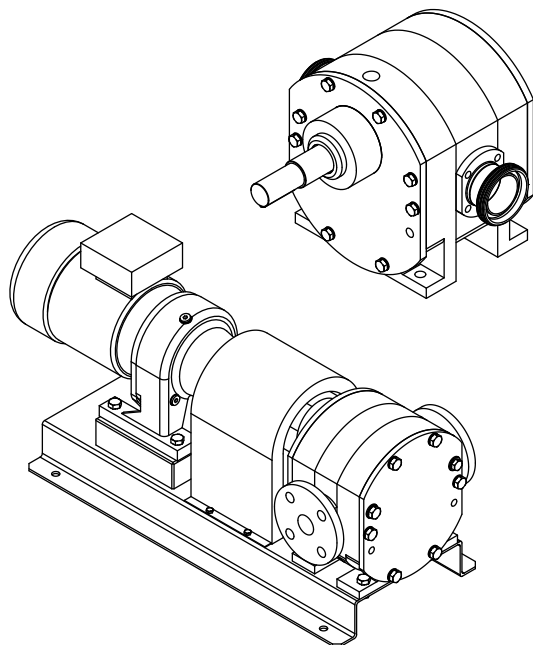
CAPACITY OF FL--ENC PUMPS

MODEL	Min. Flow (L/h)	Max. Flow (L/h)	Max. Pressure (bar)	Ø Free (mm)	DIN 11851	CLAMP	BSP
FL50ENC	500	4.000	18	29	DN25 - DN32	1"	1" - 1 1/4"
FL70ENC	1.000	7.000	18	50	DN40 - DN50	1 1/2" - 2"	1 1/2" - 2"
FL100ENC	3.000	10.000	18	67	DN65 - DN80	2" - 2 1/2"	2" - 2 1/2"
FL140ENC	5.000	15.000	18	80	DN80 - DN100	3" - 4"	3"

DIMENSIONS OF FL--ENC MODEL



MODEL	B1	B2	C	D	E	F	G	H	H1	I	J	K	L	M	P	Q	S	T	W	X	Y	Z
FL50ENC	DN32	DN32	260	30	825	190	60	130	180	500	700	340	245	370	245	170	14	300	170	220	60	13
FL70ENC	DN50	DN50	260	30	843	190	60	130	180	500	700	340	255	370	255	190	14	320	170	220	60	13
FL100ENC	DN80	DN80	260	34	932	190	60	130	180	500	700	340	270	370	270	220	14	340	170	220	60	13
FL140ENC	DN80	DN80	260	34	1086	190	60	130	180	500	700	340	290	370	290	260	14	340	170	220	60	13



MODEL	WEIGHT (kg) Bare shaft pump
FL50ENC	48.5
FL70ENC	54
FL100ENC	63
FL140ENC	73.5