

E-FLOW 100 SERIES

Submersible sewage pump with explosion proof motors

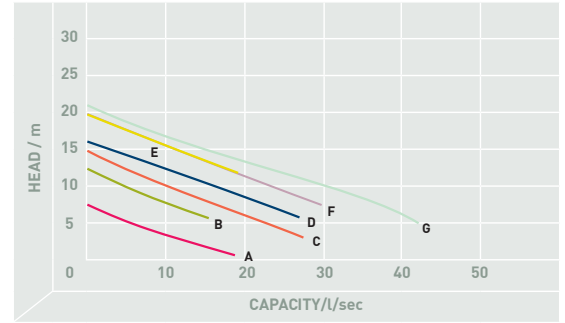
The E-Flow 100 are a series of submersible effluent pumps are designed and manufactured to incorporate a Zone 1 explosion-proof motor.

All models have a 100mm discharge size, and the design is based on years of experience of effluent and sewage applications requiring efficient pumps with high reliability and low maintenance costs. The single-bladed channel impeller handles 76m solids, and the double Silicon Carbide mechanical seal gives superior motor protection from the pumped liquid.

The E-Flow 100 series offers a range of motor and impeller sizes, enabling selection for specific applications and duties.

Features:

- Cast Iron construction
- Auto-coupling available
- Oil seal leak sensor optional



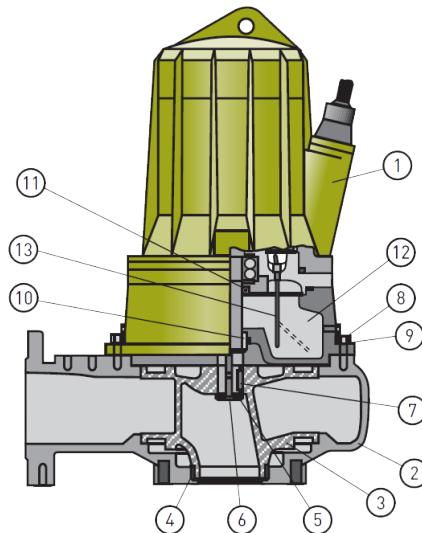
TECHNICAL SPECIFICATION

PUMP TYPE	PRODUCT CODE	CURVE	OUTPUT		DISCHARGE		MAXIMUM		FREE PASSAGE (mm)	RPM	RATED CURRENT*		STARTING CURRENT*	CABLE (see notes)	P.T.B CERTIFICATION	CABLE	WEIGHT kg
			kW	mm	inch	HEAD M	CAPACITY LPM	DIR			YID						
E100-2.2-1 400V/3Ph	PB/E100-2.2-1/SL	/A	2.2	100	4	7	20	76	1375	5.3	21.7	-	1 x 10core x 1.5mm ² x 15m	PTB 02 ATEX 1132	20	112	
E100-2.2-2 400V/3Ph	PB/E100-2.2-2/SL	/B	2.2	100	4	12	16	76	1375	5.3	21.7	-	1 x 10core x 1.5mm ² x 15m	PTB 02 ATEX 1132	20	112	
E100-4.0-3 ASD 400V/3Ph	PB/E100-4.0-3/SL	/C	4.0	100	4	14	29	76	1435	9.0	48.6	16.2	1 x 10core x 1.5mm ² x 15m	PTB 02 ATEX 1132	20	139	
E100-4.0-4 ASD 400V/3Ph	PB/E100-4.0-4/SL	/D	4.0	100	4	15	28	76	1435	9.0	48.6	16.2	1 x 10core x 1.5mm ² x 15m	PTB 02 ATEX 1132	20	139	
E100-4.0-5 ASD 400V/3Ph	PB/E100-4.0-5/SL	/E	4.0	100	4	19	20	76	1435	9.0	48.6	16.2	1 x 10core x 1.5mm ² x 15m	PTB 02 ATEX 1132	20	139	
E100-5.5-5 ASD 400V/3Ph	PB/E100-5.5-5/SL	/F	5.5	100	4	19	30	76	1420	12.0	64.8	21.6	1 x 10core x 1.5mm ² x 15m	PTB 02 ATEX 1132	20	141	
E100-5.5-6 ASD 400V/3Ph	PB/E100-5.5-6/SL	/G	5.5	100	4	20	42	76	1420	12.0	64.8	21.6	1 x 10core x 1.5mm ² x 15m	PTB 02 ATEX 1132	20	141	

* at 400V 3Ph 50Hz. Cables outer diameter: 10core x 1.5mm² = 19/20mm; 12core x 2.5mm² = 24/25mm

PARTS AND MATERIAL LISTS

No.	PART	MATERIAL	QTY
1	Motor	Casing - Cast Iron; Shaft - Stainless Steel	1
2	Pump Casing	Cast Iron BS1452, Gr 220	1
3	Impeller	Cast Iron BS1452, Gr 220	1
4	Wear Ring	Bronze BS1400, LG2	1
5	Impeller Washer	Bronze BS1400, LG2	1
6	Impeller Screw	Stainless Steel BS970 304, S15	1
7	Impeller Key	BS970 080, M30	1
8	Screw	Stainless Steel BS970 304, S15	4
9	Washer	Stainless Steel BS970 304, S15	4
10	Outer Mechanical Seal	SIC	1
11	Inner Seal	Carbon Ceramic	1
12	Oil Chamber	-	-
13	Seal Leakage Electrode	-	-
-	Cable	Neoprene Sheath	1
-	O-Ring Seals	Viton	4
-	Free Standing Discharge Bend	Cast Iron (option)	1
-	Auto Coupling Pedestal Bend	Cast Iron (option)	1
-	Paint Finsih: Chlorinated Rubber	-	-



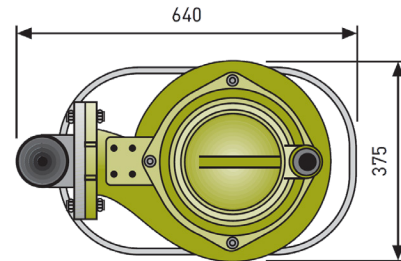
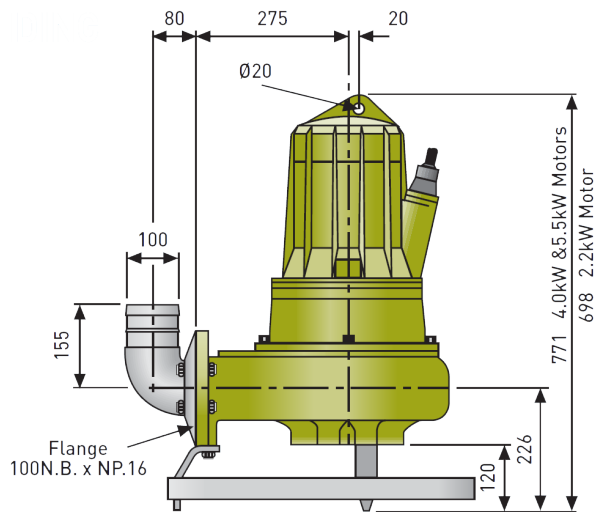
Flameproof rating EExd IIB T4. Degree of protection IP68 to 30 metre submersion depth.

Insulation: Class F.

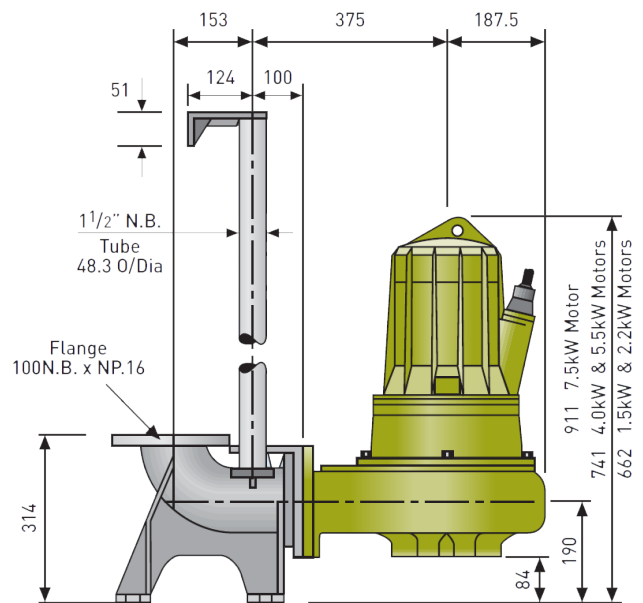
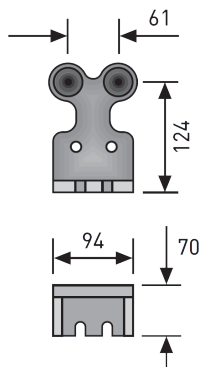
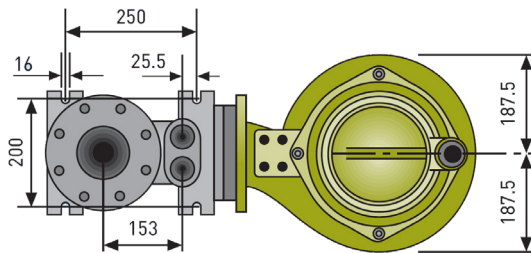
Motor thermal protection by thermostat: 3 x 105°C (control) + 3 x 120°C (limiting). Maximum liquid temperature: 40°C. Pumps are available with seal leakage electrode fitted in motor as a factory fitted original-build optional extra, to provide indication of water leakage past the mechanical seal. Cable when electrode is fitted: 1 x 12core x 2.5mm² x 15m.

DIMENSIONAL DRAWINGS

FREE STANDING



AUTO COUPLING



WEIGHTS

	E100-2.2	E100-4.0	E100-5.5
FREE STANDING			
PUMP WITH 15M CABLE, DISCHARGE BEND & PUMP STAND	124 KG	149 KG	151 KG
AUTO COUPLING			
PUMP WITH 15M CABLE & GUIDE HOOK	115 KG	142 KG	144 KG
PEDESTAL BEND	23 KG	23 KG	23KG