

STUART

PUMPS

705-8007

The Stuart submersible range extends to three types: the vortex submersibles are capable of handling suspended solids up to 20mm dia.; the standard submersibles are ideal for transfer applications where the water is relatively clean; the third option, the high head 'Diver' design, is ideal for lifting clean water from a well to taps/outlets, sprinklers etc.

General Information

All models feature an encapsulated motor in stainless steel 304 with the shaft made of stainless steel 416. Three separate lip seals are employed, running on a ceramic shaft sleeve, all immersed in a biodegradable vegetable oil.

The Sub and Vort pumps are of single stage centrifugal design with the body and coarse base filter manufactured from polypropylene. The open vane impeller is moulded in noryl.

Float Switch - Factory fitted to models Sub 140A, 250A, the Vort 130A and 230A only.

The Diver 2, 3 and 4 are of stage centrifugal design, the body manufactured from polypropylene, and closed vane noryl impellers.

All Diver models have G1 female delivery connection with a non return valve supplied. Each pump is supplied with an adaptor to suit 25 or 22mm bore hose, alternatively G1 or G $\frac{3}{4}$ male threads.

Operating Conditions

Max. Water Temp. 35°C

Min. Water Temp. 4°C

Must be fully submerged.

Float Switch cable length is adjustable to enable variable level control. (Adjustment range is dependent on model type.)

Max. Immersion Depth 7m

Max. Starts Per Hour 30

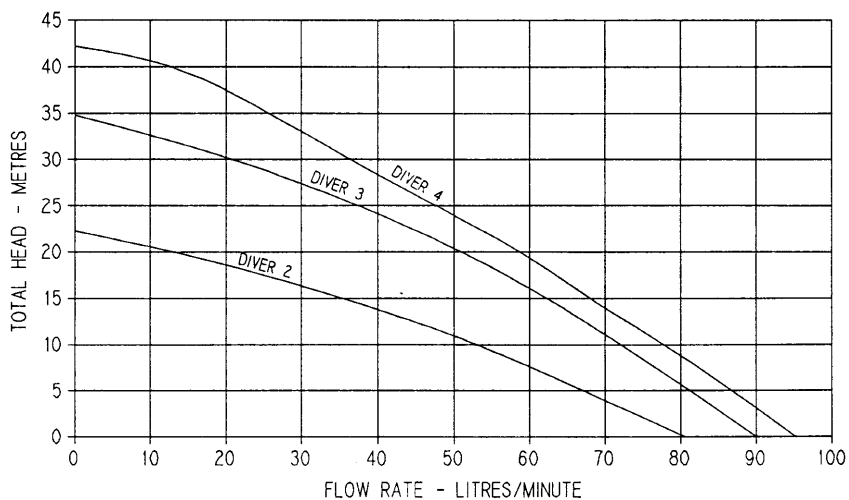
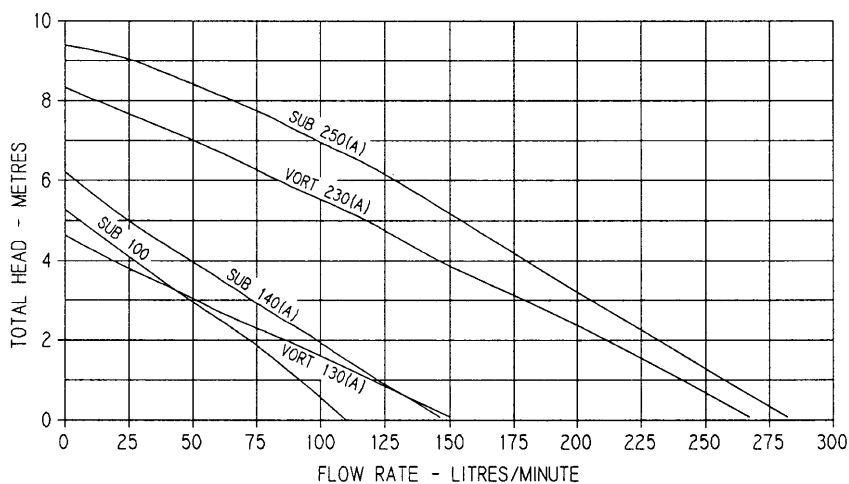
Pump Connection Sizes

	Outlet
Diver Range	G1 F
All Other Models	G1 $\frac{1}{4}$ F



Clockwise from bottom left: Vort 130A, Sub 250, Diver 3, Diver 2, Sub 140, Sub 140A, Sub 250A, Vort 230A

Performance Curves



SUBMERSIBLE RANGE

DATA SHEET G201

Electrical

Model	Voltage	Watts Output	Nom. Watts Consumed at Full Flow	Amps Full Load	Enclosure Designation
Sub 100	230	150	205	0.9	I.P. 68
Sub 140A	230	190	270	1.2	I.P. 68
Sub 250A	230	515	735	3.3	I.P. 68
Vort 130A	230	240	340	1.5	I.P. 68
Vort 230A	230	465	665	2.9	I.P. 68
Vort 230A	110	490	700	6.7	I.P. 68
Diver 2	230	390	560	2.5	I.P. 68
Diver 3	230	565	810	3.7	I.P. 68
Diver 4	230	697	960	4.2	I.P. 68

Electrical Rating

Induction motor designed for continuous use of totally enclosed construction 230V, 1 phase, 50Hz to I.P. 68 with thermal overload incorporated.

Vort 230A only is also available with 110V, 1 phase, 50Hz motor.

Diver models supplied complete with 15 metres of HO7 RN-F code mains cable, all other models supplied complete with 10 metres of HO7 RN-F code mains cable.

A residual current device having a rated current not exceeding 30mA must be installed in the supply circuit.

Dimensions (mm)

Model	A	B	C
Sub 100	140	43	267
Sub 140(A)	140	43	267
Sub 250(A)	140	43	302
Vort 130A	143	73	298
Vort 230A	143	73	332
Diver 2	148	31	350
Diver 3	148	31	376
Diver 4	148	31	499

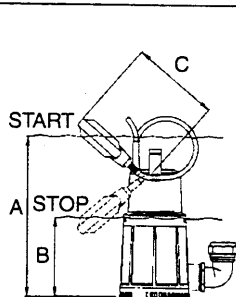
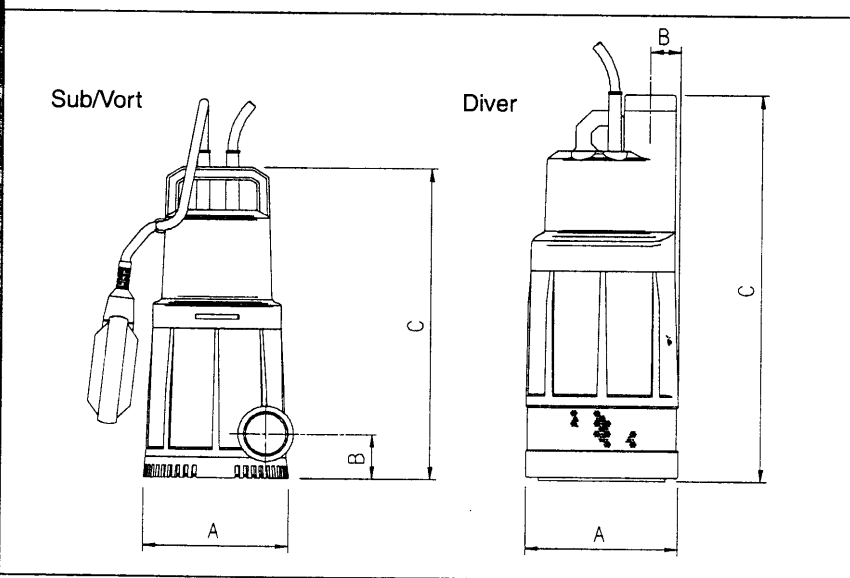


Fig 1, Min. Float Switch Movement

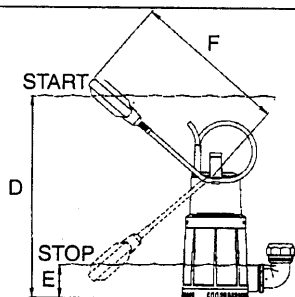


Fig 2, Max. Float Switch Movement

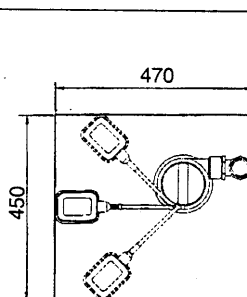


Fig 3, Min. Size of Sump

Packaging Specification

Model	Carton Dimensions L x W x H (mm)	Gross Weight kg
Sub 100	240 x 210 x 390	4.1
Sub 140(A)	240 x 210 x 390	4.5
Sub 250(A)	240 x 210 x 390	6.0
Vort 130A	240 x 210 x 390	4.3
Vort 230A	240 x 210 x 390	5.7
Diver 2	380 x 200 x 360	8.4
Diver 3	380 x 200 x 360	9.0
Diver 4	380 x 200 x 360	10.0

PUMP TYPE	A START (MIN. ADJ)	B STOP (MIN. ADJ)	C CABLE (MIN. ADJ)	D START (MAX. ADJ)	E STOP (MAX. ADJ)	F CABLE (MAX. ADJ)
SUB 140A	300	115	200	350	70	265
SUB 250A	340	155	200	420	70	330
VORT 130A	330	145	200	380	100	265
VORT 230A	370	185	200	450	100	330

Chart shows min. and max. float switch adjustment

Stuart Turner Limited reserves the right to amend specifications without notice.

STUART

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