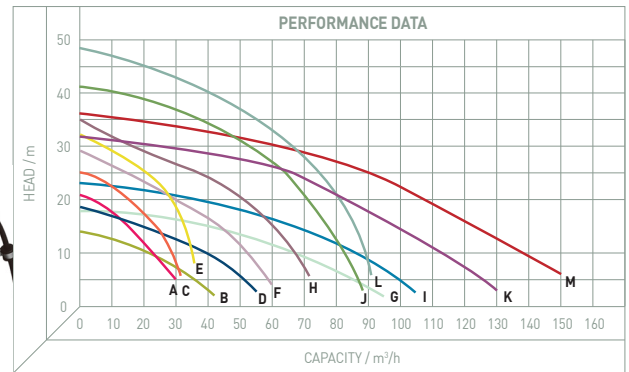


Submersible drainage pump with built in level control probe. The design has improved motor cooling due to the discharge channel being part of the motor housing, allowing the range to pump at low levels for long periods.

The probe automatically starts and stops the pump operation to maximise efficiency and reduce power consumption.

- Protect against reverse phase, ensuring correct impeller rotation
- Protect against open phase or impeller jam, thus prevent accidental damage
- Automatically stops the pump in event of overload, abnormal voltage and resets 5 minutes later
- The water sensor's height is adjustable to control pump operation start and stop



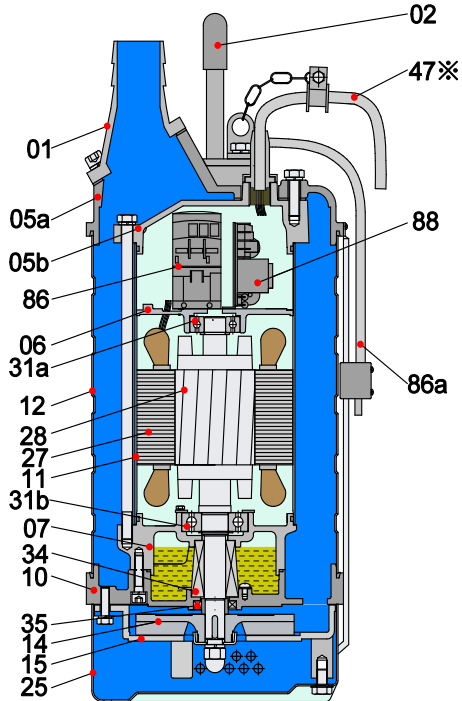
### FEATURES:

- Semi-open impeller made of high chrome alloy
- Water temperature: up to 40°C
- Max. water depth: 25m

### TECHNICAL SPECIFICATION

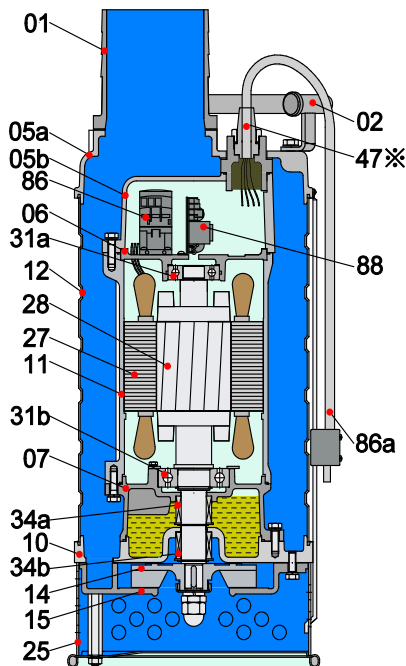
PUMP TYPE	PRODUCT CODE	CURVE	OUTPUT		DISCHARGE		MAXIMUM		FREE PASSAGE mm	CABLE m	WEIGHT kg
			kW	amp	mm	inch	HEAD m	CAPACITY m³/h			
KTSE 50 1.5	PO/KTSE50-1.5	A /	1.5	3.5	50	2	21	30	8.5	10	39
KTSE 80 1.5	PO/KTSE80-1.5	B /	1.5	3.5	80	3	14	42	8.5	10	43
KTSE 50 2.2	PO/KTSE50-2.2	C /	2.2	5.0	50	2	25	32	8.5	10	46
KTSE 80 2.2	PO/KTSE80-2.2	D /	2.2	5.0	80	3	18.5	55	8.5	10	46
KTSE 50 3.7	PO/KTSE50-3.7	E /	3.7	7.7	50	2	32	36	8.5	10	66
KTSE 80 3.7	PO/KTSE80-3.7	F /	3.7	7.7	80	3	29	60	8.5	10	66
KTSE 100 3.7	PO/ KTSE100-3.7	G /	3.7	7.7	100	4	18	95	8.5	10	67
KTSE 80 5.5	PO/KTSE80-5.5	H /	5.5	11.4	80	3	35	72	8.5	10	74
KTSE 100 5.5	PO/ KTSE100-5.5	I /	5.5	11.4	100	4	23	105	8.5	10	75
KTSE 100 7.5	PO/ KTSE100-7.5	J /	7.5	15	100	4	41	88	11.5	10	129
KTSE 150 7.5	PO/ KTSE150-7.5	K /	7.5	15	150	6	32	130	19.5	10	142
KTSE 100 11	PO/ KTSE100-11	L /	11	22	100	4	48.5	86.4	11.5	10	129
KTSE 150 11	PO/ KTSE150-11	M /	11	22	150	6	34	150	18.5	10	157

### PARTS AND MATERIALS LIST



1.5-5.5kW

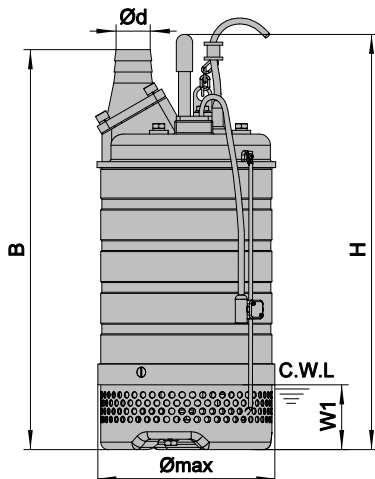
ITEM No.	PART NAME	MATERIAL	OPTIONAL
01	Hose coupling	Cast iron	AISI304SS
02	Handle	Rubber & Steel	AISI304SS
05a	Upper cover	Cast Iron	AISI304SS
05b	Upper cover	Cast Iron	AISI304SS
06	Up-Bearing house	Cast Iron	
07	Bearing house	Cast Iron	AISI304SS
10	Seal house	Cast Iron	AISI304SS
11	Motor casing	Stainless Steel	
12	Outer casing	AISI304SS	
14	Impeller	High chrome alloy	AISI304SS
15	Diffuser	Ductile iron	AISI304SS
25	Strainer	Steel	AISI304SS
27	Stator		
28	Rotor	Shaft: AISI420SS	
31a	Bearing	Ball bearing	
31b	Bearing	Ball bearing	
34	Mechanical seal	Sic-Sic/Carbon-Sic (<2.2kW) Sic-Sic/Sic-Sic (>3.7kW)	
35	Oil seal		
47	Cable		
86	AC Contactor		
86a	Water level sensor		
88	Controller block		



7.5-11kW

ITEM No.	PART NAME	MATERIAL	OPTIONAL
01	Hose coupling	Cast iron	AISI304SS
02	Handle	Steel	AISI304SS
05a	Upper cover	Cast Iron	AISI304SS
05b	Upper cover	Cast Iron	AISI304SS
06	Up-Bearing house	Cast Iron	
07	Bearing house	Cast Iron	AISI304SS
10	Seal house	Cast Iron	AISI304SS
11	Motor casing	Cast Iron	AISI304SS
12	Outer casing	AISI304SS	
14	Impeller	High chrome alloy	AISI304SS
15	Diffuser	Ductile iron	AISI304SS
25	Strainer	Steel	AISI304SS
27	Stator		
28	Rotor	Shaft: AISI420SS	
31a	Bearing	Ball bearing	
31b	Bearing	Ball bearing	
34a	Mechanical seal	Sic-Sic	
34b	Mechanical seal	Sic-Sic	
35	Oil seal		
47	Cable		
86	AC Contactor		
86a	Water level sensor		
88	Controller block		

### DIMENSIONAL DRAWING

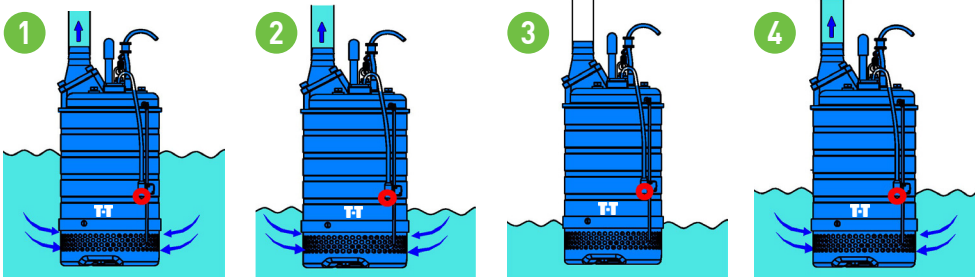


C.W.L: Continous running water level

MODEL	H	B	ØMAX	W1
KTSE 50 1.5	613	590	260	87
KTSE 80 1.5	613	597	260	87
KTSE 50 2.2	613	590	260	87
KTSE 80 2.2	613	597	260	87
KTSE 50 3.7	565	641	320	76
KTSE 80 3.7	565	641	320	76
KTSE 100 3.7	565	666	320	76
KTSE 80 5.5	605	681	320	76
KTSE 100 5.5	605	706	320	76
KTSE 100 7.5	772	882	375	142
KTSE 150 7.5	772	882	375	142
KTSE 100 11	817	927	375	142
KTSE 150 11	817	927	375	142

B: The height from pump's bottom outlet  
H: The height from pump's bottom to handles top

### OPERATION

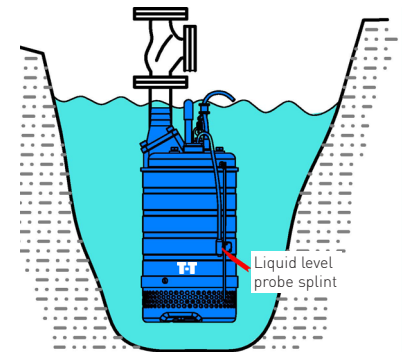


1 The pump continually runs while the electric probe remains submerged.

2 When the water surface falls below the electric probe, the timer starts (for approximately 60 seconds).

3 The pump stops as long as the water level stays below the electric probe.

4 When the water level rises and comes into contact with the electric probe, the pump starts operating again.



If the water capacity of the sump/pit is small, in order to avoid rapid start/stop operations, a ball check valve should be installed at the discharge of the pump. The electric probe should also be positioned as far up the pump as possible.

