



## APPLICATIONS

- > Sewage water pumping
- > Sump emptying
- > Septic effluent disposal
- > Water transfer
- > Pumping of light slurries and factory waste
- > Pumping waste water with stringy or long soft solids in suspension



## Davey Submersible Sewage Pumps

Model Numbers: D75KA, D150K, DT08K, DT15K, DT22K, DT37K, DT55K & DT75K

Automatic High head single channel sewage handling submersible sump pumps with cutting impeller, available with a choice of single or three phase motors. Also available in 60Hz model.

## WHY CHOOSE DAVEY SUBMERSIBLE SEWAGE PUMPS?

Corrosion resistant 304 stainless steel shaft, motor shell and fasteners

- Long service life
- Attractive, lasting appearance

Open impeller, single channel, centrifugal design with cutting leading edge

- Able to pump soft solids in suspension
- Less susceptible to blockage
- Capable of higher heads/pressure
- Able to cut string like materials, reducing the risk of blockage in pump or pipework

Double mechanical shaft seal in oil bath with hard faced silicon carbide/ceramic seal on pump side/sand slinger lip seal

- Added motor protection
- Long service life

Automatic resetting thermal overload

- Protected against overloading

D75KA model fitted with automatic float switch with a present float length

- Safe unattended operation

All units fitted with 10m harmonized cable with bared ends

- Easy connection to power supply
- Long life in dirty water

Mounting base fitted

- For a firm and stable positioning during installation and operation

Slide rail kits available

- For easy removal and re-installation

## OPERATING LIMITS

Max. submergence	20m
Max. operating temperature	40°C
Max. soft solids	up to 80% of discharge size

### Suitable Fluids

Semi-screened sewage or "grey water" of neutral pH containing up to 20% small soft solids or 1% string like solids. Some wear should be expected while pumping hard solids in suspension.

**Note:** Cutter pumps are not suitable for sanitary products - use Grinder models.

## ELECTRICAL DATA

Common to all models	
Speed	D75KA, DT08K, D150K, DT15K, DT22K, DT37K 2 pole, 2850rpm DT55K, DT75K 4 pole, 1450rpm
Insulation class	Class F
IP rating	X8
Electrical lead	H07RNF x 10m length
Insulation class	Class F

	D75KA	D150K	DT08K
Supply voltage	220-250V	220-250V	380-440V
50Hz - Phase	Single	Single	Three
Output power	0.75kW	1.5kW	0.75kW
Full load current	7.5A	14.0A	1.9A
Locked rotor current	22.5A	65.0A	10.5A
Starting	CSIR	CSIR	DOL

	DT15K	DT22K	DT37K	DT55K	DT75K
Supply voltage	380-440V				
50Hz - Phase	Three				
Output power	1.5kW	2.2kW	3.7kW	5.5kW	7.5kW
Full load current	3.0A	4.5A	6.7A	11A	16A
Locked rotor current	22A	31.5A	49A	66A	78A
Starting	DOL				

## INSTALLATION & PRIMING

Use a rope to position and retrieve the pump. Do not lower or retrieve the pump using the power lead as this may damage the cable entry seals, causing water leaks and unsafe operation.

Don't use this product for recirculating or filtering swimming pools, spas, etc. While these pumps are built to high safety standards, they are not approved for installations where people will be in the water while they are operating.

Don't pump abrasive materials. Sand and grit in the water being pumped will accelerate wear, causing shortened pump life.

Keep your pump clean, particularly in situations where lint, hair or fibrous materials may get bound around the pump shaft. Regular inspection and cleaning will extend pump life.

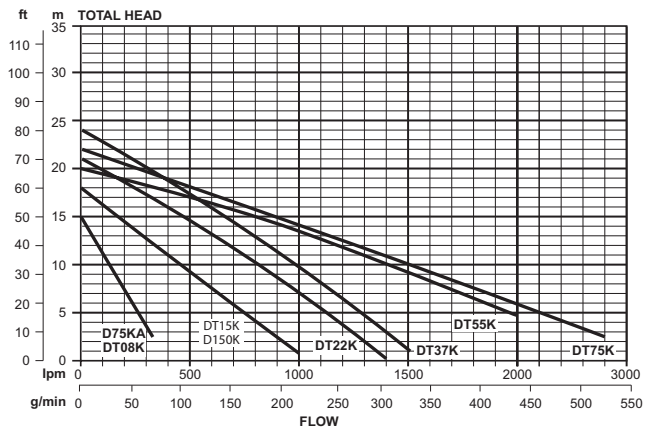
Make room for the float switch to operate. Automatic models have a float switch to turn them on when the water level rises and turn them off again when it has been pumped down to the safe operating level of the pump. If the float switch is not free to rise and fall, correct pump operation may not be possible.

Don't run your pump dry. Non-automatic models must be switched off manually or by way of an external float/level switch when the water level is reduced to the top of the pump housing.

## MATERIALS OF CONSTRUCTION

PART	MATERIAL
Impeller	Cast iron
Cutting tip	Tungsten carbide
Diffuser plate	Hardened case iron
Pump casing	Cast iron
Outlet	Cast iron
Shaft seal: - pump side - motor side	Silicon carbide/ceramic Carbide/ceramic Mechanical seals in captive oil bath with oil seal
Shaft seal elastomer	Nitrile rubber
Pump shaft	304 stainless steel
O-rings	Nitrile rubber
Motor shell	304 stainless steel
Handle	304 stainless steel + NBR
Fasteners	304 stainless steel
Float & power supply leads	H07RN-F oil resistant

## HYDRAULIC PERFORMANCE



## DIMENSIONS (MM)

Model	A	B	C	D	E	B.S.P.	Net Weight (kg)
D75KA	530	310	160	195	265	2" F	30.0
DT08K	465	310	160	195	N/A	2" F	28.5
D150K	590	360	200	240	N/A	3" F	41.0
DT15K	515	360	200	240	N/A	3" F	37.0
DT22K	560	400	210	240	N/A	3" F	47.0
DT37K	600	450	210	245	N/A	3" F	52.0
DT55K	745	725	380	400	N/A	4" F	85.0
DT75K	795	725	380	400	N/A	4" F	90.0

